

**UNMUTUABLE TRUSTS**  
**WELFARE & WELFARE COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. K. RAJESWARAN VS SMALL ARTS (I) II, MUMBAI - 400 074**  
**Fracturing Plan and Implementation Report 2023-24**

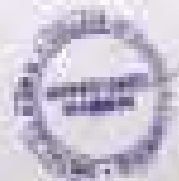
**Department:** English

**Name of Teacher:** Dr. Manisha Mahesh Joshi

**Class (B.A./B.Sc. / B.Com.):** Second      **Subject:** Fundamentals of Mass Communication      **Subject Code:** EN200101-02

**No. of lectures allotted per week:** 04      **No. of lectures covered per semester:** 16      **No. of lectures allotted per semester:** 16

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per week
<b>August</b>	<p><b>Module I: Introduction and Overview</b></p> <p>1. Meaning and importance of Mass Communication</p> <p>2. Forms of Communication</p> <p>Mass Personal Communication, Interpersonal Communication, Group Communication, Mass Communication, Electronic, Satellite, Interactive, Digital Communication etc.</p> <p>3. Models of Communication: Goffman's Model, Sociological Model, Dependency Model, DePaul's Model of the Two-dimensional Audience Model, Hall Model, Seltzer's Model</p> <p><b>Module II: History of Mass Communication</b></p> <p>1. From Oral to Communication (Print, Broadcast, Private, Digital)</p> <p>2. From Electric to Mass media communication, From Electric to Digital Communication, Contemporary Issues in Indian Communication Learning</p>	<p><b>Module I: Introduction and Overview</b></p> <p>1. Meaning and importance of Mass Communication</p> <p>2. Forms of Communication</p> <p>Mass Personal Communication, Interpersonal Communication, Group Communication, Mass Communication, Electronic, Satellite, Interactive, Digital Communication etc.</p> <p>3. Models of Communication: Goffman's Model, Sociological Model, Dependency Model, DePaul's Model of the Two-dimensional Audience Model, Hall Model, Seltzer's Model</p> <p><b>Module II: History of Mass Communication</b></p> <p>1. From Oral to Communication (Print, Broadcast, Private, Digital)</p> <p>2. From Electric to Mass media communication, From Electric to Digital Communication, Contemporary Issues in Indian Communication Learning</p>	<p>16 lectures were completed from 16/08/2023</p>
<b>September</b>	<p><b>Module III: Mass Forms of Mass Media</b></p> <p>1. Traditional and Electronic Media</p> <p>2. Print Media, Newspapers, Magazines</p> <p>3. Broadcast: Television, Radio</p> <p>4. Film</p> <p>5. Internet</p>	<p><b>Module III: Mass Forms of Mass Media</b></p> <p>1. Traditional and Electronic Media</p> <p>2. Print Media, Newspapers, Magazines</p> <p>3. Broadcast: Television, Radio</p> <p>4. Film</p> <p>5. Internet</p> <p>Particular not covered as per their proposal</p>	<p>16 lectures were covered from 16/08/2023 to 16/09/2023</p>




<p>Teacher</p>	<p>4. Film 5. Internet Module 10: Impact of Mass Media on Society 1a. Social Impact (with social reformers who have successfully used mass communication) 1b. Political Impact (with political leaders who have successfully used mass communication)     1. Economic Impact (With how economic changes were brought about by mass communication)     2. Developmental Impact (With how the government has successfully used mass communication) 2. Impact of mass media on     a. Education,     b. Children,     c. Women,     d. Culture,     e. Youth,     f. Development. Module 11: The New Media and Media Convergence 1. Character and features of new media, Technologies used in new media. 2. Major Challenges to new media: Fragmentation, personal, social and cultural. 3. Policy options.</p>	<p>4. Film 5. Internet Module 10: Impact of Mass Media on Society 1a. Social Impact (with social reformers who have successfully used mass communication) 1b. Political Impact (with political leaders who have successfully used mass communication)     1. Economic Impact (With how economic changes were brought about by mass communication)     2. Developmental Impact (With how the government has successfully used mass communication) 2. Impact of mass media on     a. Education,     b. Children,     c. Women,     d. Culture,     e. Youth,     f. Development. Module 11: The New Media and Media Convergence 1. Character and features of new media, Technologies used in new media. 2. Major Challenges to new media: Fragmentation, personal, social and cultural. 3. Policy options Bounded Answer</p>	<p>Group 10 10/10/2023 10/10/2023 10/10/2023</p>
<p>Observer</p>			<p>10/10/2023 10/10/2023 10/10/2023</p>
<p>Signature of Coordinator</p>		<p>Signature of Subject Teacher</p>	<p>10/10/2023</p>

**LADAKH CHARITABLE TRUSTS**  
**WIRLICKA B. D. S. M. V. COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**(IN A WARRAUNTED MAFCL ANCHORS) (L. D. S. M. V.)**

**Working Plan and Implementation Report (2023-24)**

Department	LADAKH
Name of Teacher	Mr. Sonam Singh
Course: B.A. (Hons.)	Subject: Visual Communication
	Subject Code: 202301101
No. of lessons Allowed per week: 04	No. of lessons Covered per Semester: 47
No. of lessons Allowed per Semester: 48	

Weeks of teaching	Topic Proposed	Topic Covered	No. of lessons per topic
<b>August</b>	<p><b>Module 1: Introduction to Visual Communication</b>                      Introduction to Visual Communication</p> <ol style="list-style-type: none"> <li>1. History and Development of Visual</li> <li>2. Theory and Importance of Visual Communication</li> <li>3. Visual Communication as a process and its Applications, Strategy and Visual Communication</li> <li>4. Visual Concepts                             <ol style="list-style-type: none"> <li>a. Plans and Organizational Charts</li> <li>b. Maps</li> <li>c. Diagrams</li> </ol> </li> <li>5. Symbolic Concepts                             <ol style="list-style-type: none"> <li>a. Informational Systems</li> <li>b. Packaging systems</li> </ol> </li> </ol> <p><b>Module 2: Theory of Visual Communication</b></p> <ol style="list-style-type: none"> <li>1. Visual Theory                             <ol style="list-style-type: none"> <li>a. Color</li> <li>b. Contrast</li> <li>c. Balance</li> </ol> </li> <li>2. Perceptual Theory                             <ol style="list-style-type: none"> <li>a. Gestalt</li> <li>b. Figure</li> </ol> </li> <li>3. Design Theory                             <ol style="list-style-type: none"> <li>a. Structure</li> <li>b. Layout</li> </ol> </li> </ol> <p><b>Module 3: Important Terms</b>                      Color and Design in Visual Communication</p>	<p><b>Module 1: Introduction to Visual Communication</b>                      Introduction to Visual Communication</p> <ol style="list-style-type: none"> <li>1. History and Development of Visual</li> <li>2. Theory and Importance of Visual Communication</li> <li>3. Visual Communication as a process and its Applications, Strategy and Visual Communication</li> <li>4. Visual Concepts                             <ol style="list-style-type: none"> <li>a. Plans and Organizational Charts</li> <li>b. Maps</li> <li>c. Diagrams</li> </ol> </li> <li>5. Symbolic Concepts                             <ol style="list-style-type: none"> <li>a. Informational Systems</li> <li>b. Packaging systems</li> </ol> </li> </ol> <p><b>Module 2: Theory of Visual Communication</b></p> <ol style="list-style-type: none"> <li>1. Visual Theory                             <ol style="list-style-type: none"> <li>a. Color</li> <li>b. Contrast</li> <li>c. Balance</li> </ol> </li> <li>2. Perceptual Theory                             <ol style="list-style-type: none"> <li>a. Gestalt</li> <li>b. Figure</li> </ol> </li> <li>3. Design Theory                             <ol style="list-style-type: none"> <li>a. Structure</li> <li>b. Layout</li> </ol> </li> </ol> <p><b>Module 3: Important Terms</b>                      Color and Design in Visual Communication</p>	<p>47</p>
<b>September</b>		<p><b>Module 1: Introduction to Visual Communication</b>                      Introduction to Visual Communication</p> <ol style="list-style-type: none"> <li>1. History and Development of Visual</li> <li>2. Theory and Importance of Visual Communication</li> <li>3. Visual Communication as a process and its Applications, Strategy and Visual Communication</li> <li>4. Visual Concepts                             <ol style="list-style-type: none"> <li>a. Plans and Organizational Charts</li> <li>b. Maps</li> <li>c. Diagrams</li> </ol> </li> <li>5. Symbolic Concepts                             <ol style="list-style-type: none"> <li>a. Informational Systems</li> <li>b. Packaging systems</li> </ol> </li> </ol> <p><b>Module 2: Theory of Visual Communication</b></p> <ol style="list-style-type: none"> <li>1. Visual Theory                             <ol style="list-style-type: none"> <li>a. Color</li> <li>b. Contrast</li> <li>c. Balance</li> </ol> </li> <li>2. Perceptual Theory                             <ol style="list-style-type: none"> <li>a. Gestalt</li> <li>b. Figure</li> </ol> </li> <li>3. Design Theory                             <ol style="list-style-type: none"> <li>a. Structure</li> <li>b. Layout</li> </ol> </li> </ol> <p><b>Module 3: Important Terms</b>                      Color and Design in Visual Communication</p>	<p>47</p>

	<p>1. Color Theory</p>	<p>1. Color Theory</p>	<p>11/20/2023</p>
<p>Teacher</p>	<p>2. Psychological Implications of Color  3. Color and Visual Pleasure  4. Elements of Design</p> <p>Module IV: Elements of Visual Communication  Topic: Methods of Visual communication</p> <ul style="list-style-type: none"> <li>a. Printing and Photography</li> <li>b. Film and Television, Illustration, Script Writing and Animation</li> <li>c. Comics and cartoons, Digital Images, Animation and VFX</li> <li>d. News Papers, Advertisements, Promotionalism</li> <li>e. Full and Performing Arts, Theatre</li> </ul> <p>Module V: Language and Culture in the age of Social Media  Visual Communication in the Age of Social Media</p> <ul style="list-style-type: none"> <li>a. Sites</li> <li>b. Impact of Language and Culture: Images and Messages, Type and Systems (202, etc.)</li> </ul>	<p>2. Psychological Implications of Color  3. Color and Visual Pleasure  4. Elements of Design</p> <p>Module IV: Elements of Visual Communication  Topic: Methods of Visual communication</p> <ul style="list-style-type: none"> <li>a. Printing and Photography</li> <li>b. Film and Television, Illustration, Script Writing and Animation</li> <li>c. Comics and cartoons, Digital Images, Animation and VFX</li> <li>d. News Papers, Advertisements, Promotionalism</li> <li>e. Full and Performing Arts, Theatre</li> </ul> <p>Module V: Language and Culture in the age of Social Media  Visual Communication in the Age of Social Media</p> <ul style="list-style-type: none"> <li>a. Sites</li> <li>b. Impact of Language and Culture: Images and Messages, Type and Systems (202, etc.)</li> </ul>	<p>11/20/2023</p>
<p>Student</p>	<p>1. Aesthetic Balance  4. Content Organization: Using Visual  7. Visual Storytelling in Social Media</p> 	<p>1. Aesthetic Balance  4. Content Organization: Using Visual  7. Visual Storytelling in Social Media</p> <p>Relevant content</p>	<p>11/20/2023</p>
<p>Signature of Coordinator</p>		<p>Signature of Subject Teacher</p> 	

**LADY CHANDLER TRUSTS**  
**WHEELER & WHEELER COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. S. RAJAMOHANAPPA SWAMI STREET (2), MUMBAI - 400002**

**Teaching Plan and Implementation Record (2023-24)**

Department	English		
Name of Teacher	Ms. Nandini Singh		
Class: <b>SC1401 - Semester - I</b>	Subject: <b>History of India</b>	Suggested Unit: <b>Implementation</b>	
No. of lectures allotted per week: <b>01</b>	No. of lectures covered per Semester: <b>02</b>	No. of lectures allotted per Semester: <b>02</b>	

Date of teaching	Topic Proposed	Topic Covered	No. of hours per week
<b>August</b>	<p><b>Module I Introduction</b>                      Evolution of Print in India:                      1. Newspaper: The Rise of the Press of India during British Rule                      2. India's Freedom Struggle and role of Media                      3. Journalism and Role of Newspapers                      Newspaper: A Social Agent for Freedom Struggle, Press Act of 1882                      4. Press during the Emergency Period  <b>Module II Language Form</b>                      History of Indian Language Press in India                      1. Rise of Hindi Language Newspaper covered report on Vernacular Press in India relating to Newspaper                      2. Regional press and its contribution of Indian Regional Language in various regions                      3. Vernacular Press Act 1878</p>	<p><b>Module I Introduction</b>                      Evolution of Press in India:                      1. Newspaper: The Rise of the Press of India during British Rule                      2. India's Freedom Struggle and role of Media                      3. Journalism and Role of Newspapers                      Newspaper: A Social Agent for Freedom Struggle, Press Act of 1882                      4. Press during the Emergency Period  <b>Module II Language Form</b>                      History of Indian Language Press in India                      1. Rise of Hindi Language Newspaper covered report on Vernacular Press in India relating to Newspaper                      2. Regional press and its contribution of Indian Regional Language in various regions                      3. Vernacular Press Act 1878</p>	<p><b>17</b>                      01 hours                      seven                      sessions                      01:00-12:00                      01 hours                      seven                      days                      per                      week</p>
<b>September</b>	<p><b>Module III Development and Form</b>                      History of Development and Form:                      1. History of Development and Form (History of a free Development in context) - Dr. Mahadevi Varma, India: The Yearning (1961)                      2. Birth of Development: P. P. Chatterjee, The Indian Press, 1951                      Part 1st and Part 2nd: History: Journal Development                      3. Evolution of Film Making in India: Sunil Dutt, Journalism in History (1961)                      4. Birth of Film Industry</p>	<p><b>Module III Development and Form</b>                      History of Development and Form:                      1. History of Development and Form (History of a free Development in context) - Dr. Mahadevi Varma, India: The Yearning (1961)                      2. Birth of Development: P. P. Chatterjee, The Indian Press, 1951                      Part 1st and Part 2nd: History: Journal Development                      3. Evolution of Film Making in India: Sunil Dutt, Journalism in History (1961)                      4. Birth of Film Industry</p>	<p><b>08:00</b> hours                      covered                      weekly                      01 hours                      five                      days                      per                      week                      01:00                      to                      1:00                      seven                      days                      per                      week                      01 hours                      15                      minutes                      01                      hour                      15                      minutes                      per                      week</p>



			Faculty and Staff
<p><b>Faculty</b></p>	<p>1. Role of Government (P. Page, 111) Teaching &amp; Learning            Text: 21st and 21st Century, Social Responsibility</p> <p>2. Evolution of Film Making in India: Short Films, Photography in            Moving Film</p> <p>3. Change of World Cinema</p> <p>4. Change of World Cinema when it comes to India: India's Position and            Strategy</p> <p>5. Social Mission of World Cinema</p> <p><b>Module II: Short Story</b></p> <p>History of Fiction and Techniques in India</p> <p>1. India and Short Stories in Hindi</p> <p>2. Indian and Short Stories in English</p> <ul style="list-style-type: none"> <li>a. The Beginning of Indian and Short Stories</li> <li>b. A New Era in Short Story in India</li> <li>c. Gender, Sexuality and Post-colonial in Short Story</li> <li>d. Short Story in India</li> </ul> <p>3. Indian Short Story</p> <p><b>Module III: Short Story</b></p> <p>Role of Short Story in the History of Indian Culture</p> <p>1. Role of Short Story</p> <p>2. Short Story in India</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p>	<p>1. Role of Government (P. Page, 111) Teaching &amp; Learning            Text: 21st and 21st Century, Social Responsibility</p> <p>2. Evolution of Film Making in India: Short Films, Photography in            Moving Film</p> <p>3. Change of World Cinema</p> <p>4. Change of World Cinema when it comes to India: India's Position and            Strategy</p> <p>5. Social Mission of World Cinema</p> <p><b>Module II: Short Story</b></p> <p>History of Fiction and Techniques in India</p> <p>1. India and Short Stories in Hindi</p> <p>2. Indian and Short Stories in English</p> <ul style="list-style-type: none"> <li>a. The Beginning of Indian and Short Stories</li> <li>b. A New Era in Short Story in India</li> <li>c. Gender, Sexuality and Post-colonial in Short Story</li> <li>d. Short Story in India</li> </ul> <p>3. Indian Short Story</p> <p><b>Module III: Short Story</b></p> <p>Role of Short Story in the History of Indian Culture</p> <p>1. Role of Short Story</p> <p>2. Short Story in India</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p> <p><b>Faculty and staff are given equal ground</b></p> <p>1. Short Story</p> <p>2. Short Story</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p> <p><b>Faculty and staff</b></p>	<p>1. Faculty and Staff</p> <p>2. Faculty and Staff</p> <p>3. Faculty and Staff</p> <p>4. Faculty and Staff</p> <p>5. Faculty and Staff</p> <p>6. Faculty and Staff</p> <p>7. Faculty and Staff</p> <p>8. Faculty and Staff</p> <p>9. Faculty and Staff</p> <p>10. Faculty and Staff</p>
<p><b>Faculty</b></p>	<p>1. Role of Government (P. Page, 111) Teaching &amp; Learning            Text: 21st and 21st Century, Social Responsibility</p> <p>2. Evolution of Film Making in India: Short Films, Photography in            Moving Film</p> <p>3. Change of World Cinema</p> <p>4. Change of World Cinema when it comes to India: India's Position and            Strategy</p> <p>5. Social Mission of World Cinema</p> <p><b>Module II: Short Story</b></p> <p>History of Fiction and Techniques in India</p> <p>1. India and Short Stories in Hindi</p> <p>2. Indian and Short Stories in English</p> <ul style="list-style-type: none"> <li>a. The Beginning of Indian and Short Stories</li> <li>b. A New Era in Short Story in India</li> <li>c. Gender, Sexuality and Post-colonial in Short Story</li> <li>d. Short Story in India</li> </ul> <p>3. Indian Short Story</p> <p><b>Module III: Short Story</b></p> <p>Role of Short Story in the History of Indian Culture</p> <p>1. Role of Short Story</p> <p>2. Short Story in India</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p>	<p>1. Role of Government (P. Page, 111) Teaching &amp; Learning            Text: 21st and 21st Century, Social Responsibility</p> <p>2. Evolution of Film Making in India: Short Films, Photography in            Moving Film</p> <p>3. Change of World Cinema</p> <p>4. Change of World Cinema when it comes to India: India's Position and            Strategy</p> <p>5. Social Mission of World Cinema</p> <p><b>Module II: Short Story</b></p> <p>History of Fiction and Techniques in India</p> <p>1. India and Short Stories in Hindi</p> <p>2. Indian and Short Stories in English</p> <ul style="list-style-type: none"> <li>a. The Beginning of Indian and Short Stories</li> <li>b. A New Era in Short Story in India</li> <li>c. Gender, Sexuality and Post-colonial in Short Story</li> <li>d. Short Story in India</li> </ul> <p>3. Indian Short Story</p> <p><b>Module III: Short Story</b></p> <p>Role of Short Story in the History of Indian Culture</p> <p>1. Role of Short Story</p> <p>2. Short Story in India</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p> <p><b>Faculty and staff are given equal ground</b></p> <p>1. Short Story</p> <p>2. Short Story</p> <p>3. Short Story</p> <p>4. Short Story</p> <p>5. Short Story</p> <p>6. Short Story</p> <p>7. Short Story</p> <p>8. Short Story</p> <p>9. Short Story</p> <p>10. Short Story</p> <p><b>Faculty and staff</b></p>	<p>1. Faculty and Staff</p> <p>2. Faculty and Staff</p> <p>3. Faculty and Staff</p> <p>4. Faculty and Staff</p> <p>5. Faculty and Staff</p> <p>6. Faculty and Staff</p> <p>7. Faculty and Staff</p> <p>8. Faculty and Staff</p> <p>9. Faculty and Staff</p> <p>10. Faculty and Staff</p>



Signature of Faculty Member

Signature of Faculty Member

**LADAKH WARRIANGS TRUSTS**  
**SHYELUJ WANGMO COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. S. RADHAKRISHNAN ROAD, SHYELUJ, LEH - 191001**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department:</b>		JAMMU	
<b>Name of Teacher:</b>		Ms. Harvina Singh	
<b>Class:</b> B.A./B.B.A. Semester: I	<b>Subject:</b> Foundation Course: I	<b>Subject Code Number:</b> 001	
<b>No. of lectures allotted per week:</b> 05	<b>No. Of lectures covered per semester:</b> 05	<b>No. Of lectures Allocated per Semester:</b> 05	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
<b>August</b>	<p><b>1. Overview of India Society</b>                      Understand the Multicultural diversity of Indian Society through its demographic composition.                      Population distribution according to religion, caste, and gender.                      Appreciate the concept of Linguistic diversity as related to the Indian states.                      Understand regional variations according to rural, urban, and tribal characteristics.                      Understanding the concept of diversity as difference.</p> <p><b>2. Concept of Diversity-I</b>                      Understand the concept of diversity as arising out of socialization and acculturation.                      Explain the disparities among cast of gender with special reference to visible and invisible minorities.                      Female Fraternity (defining sex roles), Portrayal of Women in Media.                      Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities.</p> <p><b>3. Concept Diversity-II</b>                      Examine inequalities mentioned due to the caste system and inter-caste conflicts among groups.</p>	<p><b>1. Overview of India Society</b>                      Understand the Multi-cultural diversity of Indian Society through its demographic composition.                      Population distribution according to religion, caste, and gender.                      Appreciate the concept of Linguistic diversity as related to the Indian states.                      Understand regional variations according to rural, urban, and tribal characteristics.                      Understanding the concept of diversity as difference.</p> <p><b>2. Concept of Diversity-I</b>                      Understand the concept of diversity as arising out of socialization and acculturation.                      Explain the disparities among cast of gender with special reference to visible and invisible minorities.                      Female Fraternity (defining sex roles), Portrayal of Women in Media.                      Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities.</p> <p><b>3. Concept Diversity-II</b>                      Examine cast system as per proposed topic.</p>	<p>05</p> <p><b>Practical</b>                      None</p> <p><b>Assessment</b>                      Internal Test on 27/08/23                      MCQ Test on 01/09/23                      Essay</p>



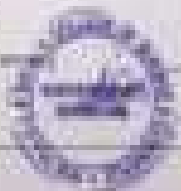
<p>September</p>	<p>1. Concept Dispute-2          Examine inequalities manifested due to the caste system and inter-group conflicts arising therefrom.          Understand how group conflicts arising out of communalism.          Examine the causes and effects of conflicts arising out of regionalism and linguistic differences.</p> <p>2. The Indian Constitution;          Philosophy of the Constitution as set out in the Preamble.          The Structure of the Constitution- the President, Main Body, and Schedule, Fundamental Duties of the Indian Citizen          Subjects.</p>	<p>1. Concept Dispute-2          Examine inequalities manifested due to the caste system and inter-group conflicts arising therefrom.          Understand how group conflicts arising out of communalism.          Examine the causes and effects of conflicts arising out of regionalism and linguistic differences.</p> <p>Further text about as per proposed topics</p>	<p>13          Includes          internal report          10 hours for          as per TT due to          fluctuating          expenses,          Covid-19          and other          changes          within</p>
<p>October</p>	<p>4. The Indian Constitution;          Philosophy of the Constitution as set out in the Preamble.          The Structure of the Constitution- the President, Main Body, and Schedule, Fundamental Duties of the Indian Citizen          Subjects.</p> <p>Power, and Governmental Machinery as crucial values in strengthening the social fabric of Indian society.          Main Features of the Constitution.</p> <p>3. Significant Aspects of Political Processes          The party system in Indian Politics          Local self-government in Urban and Rural areas          The 74th &amp; 73rd Amendments and their implications for inclusive politics          Role and significance of women in politics.</p>	<p>4. The Indian Constitution;          Philosophy of the Constitution as set out in the Preamble.          The Structure of the Constitution- the President, Main Body, and Schedule, Fundamental Duties of the Indian Citizen          Subjects.</p> <p>Power, and Governmental Machinery as crucial values in strengthening the social fabric of Indian society          Main Features of the Constitution.</p> <p>3. Significant Aspects of Political Processes          The party system in Indian Politics</p> <p>Further text about as per the syllabus</p>	<p>14          10 hours for          as per TT          because of          other supports</p>
<p>November</p>	<p>Local self-government in Urban and Rural areas          The 74th &amp; 73rd Amendments and their implications for inclusive politics          Role and significance of women in politics.</p>  	<p>Local self-government in Urban and Rural areas          The 74th &amp; 73rd Amendments and their implications for inclusive politics          Role and significance of women in politics.</p> <p>Essential and Revision topics</p> 	<p>15          10 hours          internal report          10 hours for          as per          fluctuating          expenses          Covid-19          and other          changes          within</p>
<p>Signature of Chairperson</p>		<p>Signature of Subject Teacher</p>	<p>16          10 hours          internal report          10 hours for          as per          fluctuating          expenses          Covid-19          and other          changes          within</p>

**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF ENGLISH**

**Learning Plan and Implementation Report (LPIR)**

<b>Department</b>	English
<b>Name of Teacher</b>	Mr. Chandy Manu
<b>Class / Section / Semester</b>	English I / Intermediate I
<b>No. of Lectures / Seminars / Topics</b>	No. of Lectures / Seminars / Topics: 10

<b>Week of Learning</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Lectures / Seminars / Topics</b>
<b>Page</b>	<p><b>Module I Introduction to Communication</b></p> <p>1. The concept of communication / communication as a bridge across languages of communication in India. Differences between verbal and non-verbal communication. Barriers to Communication. Meaning to Communication.</p> <p>2. Types of Communication. Types of Communication. Verbal Communication. Importance of verbal communication.</p> <p>Advantages of verbal communication. Significance of Non-verbal Communication.</p> <p>3. Oral Communication and Media. Learning, oral, mediated, written, audio, video, printing, etc. other print documents, mass and electronic media and group discussion.</p> <p>4. Learning Skills: Learning Process, Characteristics of Learning Process of Learning. Common Barriers to the Learning Process. Process of Improving Learning. Learning as an experiential in WorldClass.</p> <p><b>Module II Reading English: Reading Skills</b></p> <p>1. Types of Reading: Types of reading: skimming and scanning. Reading strategies: skimming, skimming, etc. 15.</p>	<p><b>Module I Introduction to Communication</b></p> <p>1. The concept of communication / communication as a bridge across languages of Communication in India. Differences between Verbal and non-verbal Communication. Barriers to Communication. Meaning to Communication for Verbal Communication.</p> <p>2. Types of Communication. Types of Communication. Verbal Communication. Importance of verbal communication.</p> <p>Advantages of verbal communication. Significance of Non-verbal Communication.</p> <p>3. Oral Communication and Media. Learning, oral, mediated, written, audio, video, printing, etc. other print documents, mass and electronic media and group discussion.</p> <p>4. Learning Skills: Learning Process, Characteristics of Learning Process of Learning. Common Barriers to the Learning Process. Process of Improving Learning. Learning as an experiential in WorldClass.</p> <p><b>Module II Reading English: Reading Skills</b></p> <p>1. Types of Reading: Types of reading: skimming and scanning. Reading strategies: skimming, skimming, etc. 15.</p>	<p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p>





**LAURENCE CHRISTABLE TRUSTS**  
**SECTION 1, 112 & 113 AS TO DISBURSEMENT OF TRUSTS RECEIVED & ACCRUED**  
**ON A BARRISTER-IN-CHIEF'S ACCOUNT OF A WILLFUL TRUSTEE**

**Working Plan and Supplemental Account (1937-38)**

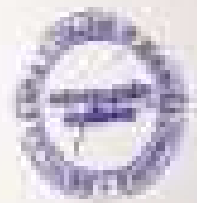
<b>Proposed:</b>		<b>Actual:</b>	
<b>Place of Trustee:</b>		<b>No. of Years:</b>	
<b>Class of Trustee:</b>		<b>Barriers:</b>	<b>Capital Assets:</b>
<b>No. of Years Allowed per Article 11:</b>		<b>No. of Years Allowed per Section 11:</b>	<b>No. of Years Allowed per Section 11:</b>
<b>Wants of Trustee:</b>	<b>Topic Proposed:</b>	<b>Topic Allowed:</b>	<b>No. of Years per Item:</b>
<b>None</b>	<p><b>Section 1 - Current National Income:</b></p> <ol style="list-style-type: none"> <li>Three political trusts of national importance</li> <li>Political Leagues</li> </ol> <p>Administration of the trusts: (brief profile of each trust)</p> <ol style="list-style-type: none"> <li>The financing mechanism: (trustee's view)</li> <li>The financing mechanism: (trustee's view)</li> <li>The view of trustee regarding future and other years</li> </ol> <p><b>Section 2 - Policy and Investments:</b></p> <ol style="list-style-type: none"> <li>Statement of Government of India</li> </ol> <p>Administrative Investment Matter:</p> <ol style="list-style-type: none"> <li>Ministry of Home Affairs</li> </ol> <p>Administrative Department: Central Security, Police</p> <ol style="list-style-type: none"> <li>Investment returns</li> </ol> <p>Review of these records of investment returns:</p> <ol style="list-style-type: none"> <li>Review of 1934</li> </ol> <p>Administrative Political groups: (Special note for administrative review)</p> <ol style="list-style-type: none"> <li>Review of the State (State Government, Provincial and Federal)</li> </ol>	<p>Showing every national political trust, trustee's view, with 10 years' history and forecast for</p> <p><b>Section 1 - Current National Income:</b></p> <ol style="list-style-type: none"> <li>Three political trusts of national importance</li> <li>Political Leagues</li> </ol> <p>Administration of the trusts: (brief profile of each trust)</p> <p><b>Statement about National Income and the review</b></p> <p>Administrative of Department and on-going progress:</p> <ol style="list-style-type: none"> <li>The financing mechanism: (trustee's view)</li> <li>The financing mechanism: (trustee's view)</li> </ol> <p><b>Statement about political trust in India etc. in case study:</b></p> <ol style="list-style-type: none"> <li>The view of trustee regarding future and other years</li> </ol> <p><b>Section 2 - Policy and Investments:</b></p> <ol style="list-style-type: none"> <li>Statement of Government of India</li> </ol> <p>Administrative Investment Matter:</p> <ol style="list-style-type: none"> <li>Ministry of Home Affairs</li> </ol> <p>Administrative Department: Central Security, Police</p> <ol style="list-style-type: none"> <li>Investment returns</li> </ol> <p>Review of these records of investment returns:</p> <ol style="list-style-type: none"> <li>Review of 1934</li> </ol> <p>Administrative Political groups: (Special note for administrative review)</p> <ol style="list-style-type: none"> <li>Review of the State (State Government, Provincial and Federal)</li> </ol> <p>Particular not recorded as per the proposed plan.</p>	<p align="center">10</p> <p align="center">10 Years per item          10 Years per item          10 Years per item          10 Years per item</p>



<p><b>September</b></p>	<p>1. Review of any other relevant international progress and policies</p> <p><b>Module 10: International Affairs</b></p> <ol style="list-style-type: none"> <li>1. Security Council: Structure and role</li> <li>2. Security Council: Composition and role</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Peace-keeping operations (1948-1999)</li> <li>5. Peace-keeping: issues of international implications</li> </ol> <p><b>Module 11: International Law</b></p> <ol style="list-style-type: none"> <li>1. International system: treaty and customary political practices</li> <li>2. An update on the current political dynamics of International Law</li> </ol>	<p>1. Review of any other relevant international progress and policies</p> <p><b>Module 10: International Affairs</b></p> <ol style="list-style-type: none"> <li>1. Security Council: Structure and role</li> <li>2. Security Council: Composition and role</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Role of Council: Major Security Council Resolutions (1945-1999)</li> </ol> <p>Participation provided as per the program page</p>	<p>6. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.</p>
<p><b>October</b></p>	<p>1. Review of any other relevant international progress and policies</p> <p><b>Module 11: International Law</b></p> <ol style="list-style-type: none"> <li>1. International system: treaty and customary political practices</li> <li>2. An update on the current political dynamics of International Law</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Peace-keeping operations (1948-1999)</li> <li>5. Peace-keeping: issues of international implications</li> </ol> <p><b>Module 12: International Law</b></p> <ol style="list-style-type: none"> <li>1. International system: treaty and customary political practices</li> <li>2. An update on the current political dynamics of International Law</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Peace-keeping operations (1948-1999)</li> <li>5. Peace-keeping: issues of international implications</li> </ol> <p><b>Module 13: Technology</b></p> <ol style="list-style-type: none"> <li>1. Global: Approaches to Innovation</li> <li>2. Global: Approaches to Innovation</li> <li>3. Global: Approaches to Innovation</li> <li>4. Global: Approaches to Innovation</li> <li>5. Global: Approaches to Innovation</li> </ol>	<p>1. Review of any other relevant international progress and policies</p> <p><b>Module 11: International Law</b></p> <ol style="list-style-type: none"> <li>1. International system: treaty and customary political practices</li> <li>2. An update on the current political dynamics of International Law</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Peace-keeping operations (1948-1999)</li> <li>5. Peace-keeping: issues of international implications</li> </ol> <p><b>Module 12: International Law</b></p> <ol style="list-style-type: none"> <li>1. International system: treaty and customary political practices</li> <li>2. An update on the current political dynamics of International Law</li> <li>3. Role of Council: Major Security Council Resolutions (1945-1999)</li> <li>4. Peace-keeping operations (1948-1999)</li> <li>5. Peace-keeping: issues of international implications</li> </ol> <p><b>Module 13: Technology</b></p> <ol style="list-style-type: none"> <li>1. Global: Approaches to Innovation</li> <li>2. Global: Approaches to Innovation</li> <li>3. Global: Approaches to Innovation</li> <li>4. Global: Approaches to Innovation</li> <li>5. Global: Approaches to Innovation</li> </ol>	<p>101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200.</p>



<p>Sequence</p>	<p>Introduction to Content Assessment tools, Examples of content assessment tools in content courses          1. Augmented Reality and Virtual Reality in Media          Introduction to Augmented Reality, Introduction to Virtual Reality          Examples of Augmented Reality games and apps, Examples of Virtual Reality news website walkthroughs          4. Digital Learning Industry          Introduction to Digital Learning Industry</p>	<p>Introduction to Content Assessment tools, Principles of content assessment tools in content courses          1. Augmented Reality and Virtual Reality in Media          Introduction to Augmented Reality, Introduction to Virtual Reality, Examples of Augmented Reality games and apps, Examples of Virtual Reality news website walkthroughs          4. Digital Learning Industry          Introduction to Digital Learning Industry</p> <p>Essential Content:</p>	<p>6-7          (to be created)          Approved          Passed and set as 100          November and closed          transfer begins from          100 November, 2023</p>
<p>Signature of Coordinator: <u>Douglas</u></p>	<p>Signature of Subject Teacher: <u>[Signature]</u></p>		



**English Communication Training**  
**MODEL I, II & SEMI-TECHNICAL (DIPLOMA, SCIENCE & COMMERCE)**  
**DR. B. RANGASWAMY AIAI, UNIVERSITY, ANAPURTA - 505002**

**Working Plan and Implementation Record (WPI-IR)**

<b>Department</b>		<b>CLASS</b>	
<b>Name of Teacher</b>		<b>Dr. Chaitanya Reddy</b>	
<b>Class</b> B.A/B.A/ Commerce	<b>Section</b> 02	<b>Subject</b> English Communication II	<b>Subject Code</b> BAENR-104
<b>No. of classes allotted per week</b> 04		<b>No. of classes covered per semester</b> 04	<b>No. of classes allotted per semester</b> 04

<b>Month of working</b>	<b>Topic Covered</b>	<b>Topic Covered</b>	<b>No. of classes per topic</b>
<b>December</b>	<b>Module I Writing</b> 1. Report Writing Report Writing (English, Hindi or Marathi) General report and News report writing- National and Foreign (Headlines) Sub-headlines, Various type of Report  2. Organizational Writing English, Hindi or Marathi formal communication Formal, Informal English, Promotional messages in Hindi Communications Hindi Media communication Candidates should learn the writing a circular, Language and writing related exercises, Format of a circular.	<b>Module I Writing</b> 1. Report Writing Report Writing (English, Hindi or Marathi) General report and News report writing- National and Foreign (Headlines) Sub-headlines, Various type of Report  2. Organizational Writing English, Hindi or Marathi formal communication Formal, Informal English, Promotional messages in Hindi Communications Hindi Media communication  Exercise sets covered as per prepared report	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
<b>January</b>	Candidates should learn the writing a circular, Language and writing related exercises, Format of a circular. National, Regional, Global- Improve practice involving writing a letter Letters of Complaints, Claims and Information Complaint Closure Letter Letter under the Right to Information Act Fax, E-mail	Candidates should learn the writing a circular, Language and writing related exercises, Format of a circular. National, Regional, Global- Improve practice involving writing a letter Letters of Complaints, Claims and Information Complaint Closure Letter Letter under the Right to Information Act Fax, E-mail	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



	<p><b>Letter to the Editor</b>          1. Writing the Purpose Statement          English: Head or Main/Minor Headline, Sub-headline, Body copy, Sign-off, Photo Credit, Advertising opt.</p> <p><b>Module II Editing</b>          Editing          Proofing, Head and Main/Minor Headline Editing          Paragraphs, Substitution of words, Re-arranging of sentences,          Re-organizing content reported in a paragraph, Use of link words          (Transition of Substances and Tenses)          Writing Headers, Abstracts, News writing, Newspaper Editing and Magazine editing.</p>	<p><b>Letter to the Editor</b>          1. Writing the Purpose Statement          English: Head or Main/Minor Headline, Sub-headline, Body copy, Sign-off, Photo Credit, Advertising opt.</p> <p><b>Module II Editing</b>          Editing          Proofing, Head and Main/Minor Headline Editing          Paragraphs, Substitution of words, Re-arranging of sentences,          Re-organizing content reported in a paragraph, Use of link words          (Transition of Substances and Tenses)</p> <p><b>Further not covered as per proposed topic</b></p>	
<p><b>Abstract</b></p>	<p>Writing Headers, Abstracts, News writing, Newspaper Editing and Magazine editing.</p> <p><b>Module III Paragraphing and Summarizing</b>          1. Paragraphing: Abstracts, Use of link phrases in communication, Paragraphs in Abstracts, Summaries          2. Summarizing: Summarizing content, Re-organizing and link phrases and the logical connection between the points</p>	<p>Writing Headers, Abstracts, News writing, Newspaper Editing and Magazine editing.</p> <p><b>Module III Paragraphing and Summarizing</b>          1. Paragraphing: Abstracts, Use of link phrases in communication, Paragraphs in abstracts, Summaries          2. Summarizing: Summarizing content, Re-organizing and link phrases and the logical connection between the points</p>	<p>12-14 Lines          Abstracts written          12 samples are          kept in the          file given          after review</p>
<p><b>March</b></p>	<p>1. Summarizing: Summarizing content, Re-organizing and link phrases and the logical connection between the points.</p> <p><b>Module IV: Interpretation of Technical Data</b>          Interpreting Technical Data: Read graphs, Maps, Charts, Write content based on the data provided.</p>	<p>1. Summarizing: Summarizing content, Re-organizing and link phrases and the logical connection between the points.</p> <p><b>Module IV: Interpretation of Technical Data</b>          Interpreting Technical Data: Read graphs, Maps, Charts, Write content based on the data provided.</p> <p><b>Additional feature: Model writing content</b></p>	<p>11-13 Lines          Technical          Abstracts          10 samples are          kept in the          file in 12%          content          given after          review</p>
<p>Signature of Coordinator:</p>		<p>Signature of Subject Teacher:</p> 	



**LEARNER DEVELOPMENT REPORT**  
**UNITED STATES AIR FORCE OFFICE OF AIR FORCE EDUCATION AND TRAINING**  
**FOR A BACHELOR'S DEGREE PROGRAM, AIR FORCE OFFICIAL SCHOOL**

**Learning Plan and Implementation Report (LPIR)**

**Department:** 03000  
**Name of Teacher:** Ms. Nancy Smith  
**Class Number:** 10 **Subject:** American History II **Subject Code:** 03000000  
**No. of Lessons Planned per week:** 10 **No. of Lessons Planned per Semester:** 10 **No. of Lessons Planned per Semester:** 10

Month of Teaching	Topic Proposed	Topic Covered	No. of Lessons per week
<b>December</b>	<p>1. <b>Globalization and Modern Society:</b>                      Understanding the concept of Globalization, processes of globalization                      Growth of International technology and communication and its impact on world as a whole                      Impact of globalization on industry, change in employment and increasing migration                      2. <b>Human Rights:</b>                      Role of U.S. in promoting human rights in World's countries                      2. <b>Human Rights:</b>                      Concept of Human Rights: Origin and Evolution of the concept                      The Universal Declaration of Human Rights</p>	<p>1. <b>Globalization and Modern Society:</b>                      Understanding the concept of Globalization, processes of globalization                      Growth of International technology and communication and its impact on world as a whole                      Impact of globalization on industry, change in employment and increasing migration                      Change in employment sector due to globalization                      Role of U.S. in promoting human rights in World's countries                      2. <b>Human Rights:</b>                      Concept of Human Rights: Origin and Evolution of the concept                      The Universal Declaration of Human Rights</p>	<p>10                      10                      10                      10                      10                      10                      10                      10                      10                      10</p>
<b>January</b>	<p>Impact of globalization on industry, change in employment and increasing migration                      Change in employment sector due to globalization                      Role of U.S. in promoting human rights in World's countries                      2. <b>Human Rights:</b>                      Concept of Human Rights: Origin and Evolution of the concept                      The Universal Declaration of Human Rights</p>	<p>Impact of globalization on industry, change in employment and increasing migration                      Change in employment sector due to globalization                      Role of U.S. in promoting human rights in World's countries                      2. <b>Human Rights:</b>                      Concept of Human Rights: Origin and Evolution of the concept                      The Universal Declaration of Human Rights                      Human Rights: concept in the world and its relevance to International Rights related to the U.S. citizens</p>	<p>10                      10                      10                      10                      10                      10                      10                      10                      10</p>



	<p>Human Rights Commission (with special reference to Environmental Rights) under the Commission</p> <p>1. Strategy</p> <p>Importance of Environmental matters in the overall Environmental context</p>	<p>Further measures to be proposed under</p>	<p>and format file</p>
<p><b>Abstract</b></p>	<p>1. Strategy</p> <p>Importance of Environmental matters in the overall Environmental context</p> <p>1. Identifying concepts of Environmental Rights and their interrelationship</p> <p>2. Importance of Environmental and consumer protection of human life</p> <p>Environmental Protection: causes and control of factors like technological development, energy and consumer products and environment</p> <p>3. Link existing laws and conflict</p> <p>4. Control of state and conflict in individuals and society</p> <p>5. Access of individuals and the role played by them in promoting the individual</p> <p>6. Role of state of factors others and procedure in developing the individual</p> <p>7. Role of state and procedure in regulating Environmental Protection</p>	<p>1. Strategy</p> <p>Importance of Environmental matters in the overall Environmental context</p> <p>1. Identifying concepts of Environmental Rights and their interrelationship</p> <p>2. Importance of Environmental and consumer protection of human life</p> <p>3. Environmental Protection: causes and control of factors like technological development, energy and consumer products and environment</p> <p>4. Link existing laws and conflict</p> <p>5. Control of state and conflict in individuals and society</p> <p>6. Access of individuals and the role played by them in developing the individual</p> <p>7. Role of state of factors others and procedure in developing the individual</p>	<p>1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19 1.20 1.21 1.22 1.23 1.24 1.25 1.26 1.27 1.28 1.29 1.30 1.31 1.32 1.33 1.34 1.35 1.36 1.37 1.38 1.39 1.40 1.41 1.42 1.43 1.44 1.45 1.46 1.47 1.48 1.49 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.58 1.59 1.60 1.61 1.62 1.63 1.64 1.65 1.66 1.67 1.68 1.69 1.70 1.71 1.72 1.73 1.74 1.75 1.76 1.77 1.78 1.79 1.80 1.81 1.82 1.83 1.84 1.85 1.86 1.87 1.88 1.89 1.90 1.91 1.92 1.93 1.94 1.95 1.96 1.97 1.98 1.99 2.00</p>
<p><b>Index</b></p>	<p>1. Managing state and conflict in Environmental Rights</p> <p>2. Role of state and the role played by them in promoting individual state</p> <p>3. Access of individuals and the role played by them in promoting the individual</p> <p>4. Role of state of factors others and procedure in developing the individual</p> <p>5. Role of state and procedure in regulating Environmental Protection</p>	<p>Further measures to be proposed under</p> <p>1. Strategy</p> <p>Importance of Environmental matters in the overall Environmental context</p> <p>1. Identifying concepts of Environmental Rights and their interrelationship</p> <p>2. Importance of Environmental and consumer protection of human life</p> <p>3. Environmental Protection: causes and control of factors like technological development, energy and consumer products and environment</p> <p>4. Link existing laws and conflict in individuals and society</p> <p>5. Access of individuals and the role played by them in developing the individual</p> <p>6. Role of state of factors others and procedure in developing the individual</p>	<p>2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 2.10 2.11 2.12 2.13 2.14 2.15 2.16 2.17 2.18 2.19 2.20 2.21 2.22 2.23 2.24 2.25 2.26 2.27 2.28 2.29 2.30 2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.46 2.47 2.48 2.49 2.50 2.51 2.52 2.53 2.54 2.55 2.56 2.57 2.58 2.59 2.60 2.61 2.62 2.63 2.64 2.65 2.66 2.67 2.68 2.69 2.70 2.71 2.72 2.73 2.74 2.75 2.76 2.77 2.78 2.79 2.80 2.81 2.82 2.83 2.84 2.85 2.86 2.87 2.88 2.89 2.90 2.91 2.92 2.93 2.94 2.95 2.96 2.97 2.98 2.99 3.00</p>




Signature of the official

Department of Public Relations  
NHRC

**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**UNIVERSITY COLLEGE, KOTTAYAM**  
**DEPARTMENT OF CHEMISTRY, KOTTAYAM**

**Examination Paper and Implementation Record (A01) (a)**

Examination		Semester	
Name of Examinee		No. Register No.	
Class / Batch / Section		Subject / Section Name	
No. of Exams. Attempted per week: 01		No. of Exams. Attempted per Semester: 04	
No. of Exams. Attempted per Semester: 04		No. of Exams. Attempted per Semester: 04	
Month of writing	Type Proposed	Type Conducted	No. of Exams. attempted
<b>January</b>	<p><b>Mode of Examinations</b></p> <ol style="list-style-type: none"> <li>1. Written Examinations: Multiple-choice questions and short answer questions, application and project type.</li> <li>2. Continuous Examinations: Short-answer type questions.</li> <li>3. Practical exams: Identification and simple tests of qualitative analysis.</li> <li>4. Viva-voce examinations: Multiple-choice questions and short-answer type questions.</li> </ol> <p><b>Mode of Exams. Held</b></p> <ol style="list-style-type: none"> <li>1. Multiple-choice: Short-answer questions, short and project type questions.</li> <li>2. Short-answer: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>3. Practical exams: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> </ol>	<p><b>Mode of Examinations</b></p> <ol style="list-style-type: none"> <li>1. Written Examinations: Multiple-choice questions and short answer questions, application, application and project type.</li> <li>2. Continuous Examinations: Short-answer type questions.</li> <li>3. Practical exams: Identification and simple tests of qualitative analysis.</li> <li>4. Viva-voce examinations: Multiple-choice questions and short-answer type questions.</li> </ol> <p><b>Mode of Exams. Held</b></p> <p align="center"><b>Exams. not conducted as per proposed paper</b></p> 	<p>04</p> <p>04</p> <p>04</p> <p>04</p> <p>04</p> <p>04</p> <p>04</p> <p>04</p> <p>04</p>
<b>January</b>	<p><b>Mode of Exams. Held</b></p> <ol style="list-style-type: none"> <li>1. Multiple-choice: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>2. Short-answer: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>3. Practical exams: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>4. Viva-voce examinations: Multiple-choice questions and short-answer type questions.</li> </ol>	<p><b>Mode of Exams. Held</b></p> <ol style="list-style-type: none"> <li>1. Multiple-choice: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>2. Short-answer: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>3. Practical exams: Short-answer questions with diagrams and tables type, simple identification, identification type.</li> <li>4. Viva-voce examinations: Multiple-choice questions and short-answer type questions.</li> </ol>	<p>04</p>

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the specific procedures and protocols that must be followed when recording transactions. This includes details on how to categorize expenses, how to handle receipts, and how to ensure that all entries are properly documented and reviewed.

3. The third part of the document addresses the role of the accounting department in maintaining these records. It highlights the need for regular audits and reconciliations to identify any discrepancies or errors in the data.

4. The fourth part of the document discusses the importance of data security and confidentiality. It stresses that all financial information must be protected from unauthorized access and that appropriate measures should be taken to prevent data breaches.

5. The fifth part of the document provides a summary of the key points discussed and offers recommendations for how the organization can improve its record-keeping practices. It suggests implementing more robust internal controls and providing ongoing training for staff members.

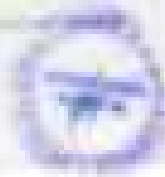
6. The sixth part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

7. The seventh part of the document outlines the specific procedures and protocols that must be followed when recording transactions. This includes details on how to categorize expenses, how to handle receipts, and how to ensure that all entries are properly documented and reviewed.

8. The eighth part of the document addresses the role of the accounting department in maintaining these records. It highlights the need for regular audits and reconciliations to identify any discrepancies or errors in the data.

9. The ninth part of the document discusses the importance of data security and confidentiality. It stresses that all financial information must be protected from unauthorized access and that appropriate measures should be taken to prevent data breaches.

10. The tenth part of the document provides a summary of the key points discussed and offers recommendations for how the organization can improve its record-keeping practices. It suggests implementing more robust internal controls and providing ongoing training for staff members.



11. The eleventh part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

12. The twelfth part of the document outlines the specific procedures and protocols that must be followed when recording transactions. This includes details on how to categorize expenses, how to handle receipts, and how to ensure that all entries are properly documented and reviewed.

13. The thirteenth part of the document addresses the role of the accounting department in maintaining these records. It highlights the need for regular audits and reconciliations to identify any discrepancies or errors in the data.

14. The fourteenth part of the document discusses the importance of data security and confidentiality. It stresses that all financial information must be protected from unauthorized access and that appropriate measures should be taken to prevent data breaches.

15. The fifteenth part of the document provides a summary of the key points discussed and offers recommendations for how the organization can improve its record-keeping practices. It suggests implementing more robust internal controls and providing ongoing training for staff members.

16. The sixteenth part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.



17. The seventeenth part of the document outlines the specific procedures and protocols that must be followed when recording transactions. This includes details on how to categorize expenses, how to handle receipts, and how to ensure that all entries are properly documented and reviewed.

18. The eighteenth part of the document addresses the role of the accounting department in maintaining these records. It highlights the need for regular audits and reconciliations to identify any discrepancies or errors in the data.

19. The nineteenth part of the document discusses the importance of data security and confidentiality. It stresses that all financial information must be protected from unauthorized access and that appropriate measures should be taken to prevent data breaches.

20. The twentieth part of the document provides a summary of the key points discussed and offers recommendations for how the organization can improve its record-keeping practices. It suggests implementing more robust internal controls and providing ongoing training for staff members.

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	<b>Module 15: Writing for the Web</b> 1. Content of Web: Importance of content 2. Layout design: Writing for Print and for screen media like Tablets etc.	<b>Project not covered as per proposed Syllabus</b>	
<b>Mark</b>	<b>Module 15: Writing for the Web</b> 1. Content of Web: Importance of content 2. Layout design: Writing for Print and for screen media like Tablets etc. 3. Importance: To computerized screen - static and interactive 4. Read: User interface - Differences in writing for print or digital 5. Research: (Project) Accounts for Search Engine Optimisation	<b>Module 15: Writing for the Web</b> 1. Content of Web: Importance of content 2. Layout design: Writing for Print and for screen media like Tablets etc. 3. Importance: To computerized screen - static and interactive 4. Read: User interface - Differences in writing for print or digital 5. Research: (Project) Accounts for Search Engine Optimisation  <b>Revised content</b>	100 (Marks) (Total) (Total) (Total) (Total) (Total)
<b>Signature of Coordinator:</b> 	<b>Signature of Subject Teacher:</b> 		



**LAURENCE HARTLEY TRUST'S**  
**SECTION 17(1) AND 17(1A) FUNDATION GRANTS TO RESEARCH AND COMMUNITY**  
**AND EDUCATION CHARITIES, UNIVERSITIES, COLLEGES, SCHOOLS**

**Reading Plan and Implementation Report (RIP-IR)**

**Department:**

**CLASSIC**

**Name of Institute:**

**St. Xavier's College**

**Class: UG/PG:** **UG/PG**

**Subject: Media Studies and Journalism**

**Subject Code: Journalism and Mass Comm. - 101**

**No. of classes (theory and practical):**

**No. of classes/Contact per Semester: 06**

**No. of papers, theory and practical: 02**

Name of Institute	Topic Proposed	Topic Approved	No. of papers per topic
<p><b>Proposed</b></p> <p>1. Introduction to Mass Media Studies                      2. Development of mass media, evolution of industry, social and cultural context, function and significance of mass media                      3. Concepts relating to mass communication, communication, education and development, cultural education, cultural change                      4. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>1. Introduction to Mass Media Studies                      2. Development of industry, evolution of industry, social and cultural context, function and significance of mass media                      3. Concepts relating to mass communication, communication, education and development, cultural education, cultural change                      4. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>1. Introduction to Mass Media Studies                      2. Development of industry, evolution of industry, social and cultural context, function and significance of mass media                      3. Concepts relating to mass communication, communication, education and development, cultural education, cultural change                      4. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>2                      Theory                      Practical                      100%                      100%                      100%</p>
<p><b>Approved</b></p> <p>1. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media                      2. Culture &amp; Media                      Communication, Education and development, cultural education, cultural change                      3. Concepts of culture: social structure, political, religious and                      scientific                      4. Culture: industry and media communication, media                      representation, production, industry culture, power, culture industry                      5. Media and its impact on the cultural aspect of the society                      6. Culture industry and communication: role of culture in film, TV, social media, advertisement etc.                      7. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>1. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media                      2. Culture &amp; Media                      Communication, Education and development, cultural education, cultural change                      3. Concepts of culture: social structure, political, religious and scientific                      4. Culture: industry and media communication, media representation, production, industry culture, power, culture industry, Media and its impact on the society                      5. Media and its impact on the cultural aspect of the society                      6. Culture industry and communication: role of culture in film, TV, social media, advertisement etc.                      7. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>1. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media                      2. Culture &amp; Media                      Communication, Education and development, cultural education, cultural change                      3. Concepts of culture: social structure, political, religious and scientific                      4. Culture: industry and media communication, media representation, production, industry culture, power, culture industry, Media and its impact on the society                      5. Media and its impact on the cultural aspect of the society                      6. Culture industry and communication: role of culture in film, TV, social media, advertisement etc.                      7. History: Mass media, printing and publishing, Television and radio, Film, Book, Music, communication, Mass Media, Culture &amp; Media</p>	<p>2                      Theory                      Practical                      100%                      100%                      100%</p>



<p><b>Answer)</b></p>	<p>1. Define industry and media communication using appropriate illustrations, provide critical analysis</p> <p>2. Media and its impact on the cultural aspect of the society</p> <p>3. Define industry and communication with reference to the IT sector with illustrations.</p> <p>4. Discuss trends in Information Technology (IT) and its impact on the communication industry</p> <p><b>OR</b></p> <p><b>Media and Culture</b>  <b>Role and influence of Media</b></p> <p>1. The influence of media on various aspects of society: culture, communication, education, social and health, corporate image, etc.</p> <p>2. Role of media in social construction of gender, changing gender &amp; behaviour for empowerment of women.</p> <p><b>Mass media of India</b></p> <p>1. Major aspects and media</p> <p>2. Major media institutions in India</p> <p>3. Mass media in rural India (TV, radio, newspapers &amp; other forms)</p> <p><b>OR</b></p> <p><b>Information &amp; Media Culture</b></p> <p>1. Define Digital Media and its Recent trends.</p>	<p>1. Define industry and media communication using appropriate illustrations, provide critical analysis</p> <p>2. Media and its impact on the cultural aspect of the society</p> <p>3. Define industry and communication with reference to the IT sector with illustrations.</p> <p>4. Discuss trends in Information Technology (IT) and its impact on the communication industry</p> <p><b>OR</b></p> <p><b>Media &amp; Media Culture</b>  <b>Role and influence of Media</b></p> <p>1. The influence of media on various aspects of society: culture, communication, education, science and social, corporate image, etc.</p> <p>2. Role of media in social construction of gender, changing gender &amp; behaviour for empowerment of women.</p> <p><b>Evolution of Media</b></p> <p>1. Major aspects and media</p> <p>2. Major media institutions in India</p> <p>3. Mass media in rural India (TV, radio, newspapers &amp; other forms)</p> <p><b>Further you are required to give detailed answer proposed.</b></p>	<p>11/7 marks for overall answer for this section except 11/7 for the given in other subject</p>
<p><b>Mark</b></p>	<p><b>11/7 Information &amp; Media Culture</b>  <b>Media, Local Community and the Recent Trends</b></p> <p>1. Media evolution</p> <p>2. Information and local culture: India and Perspectives: impact on regional and local identities. Impact on global culture and its evolution in India and world</p> <p>3. Community culture and media in the era of globalization</p> <p>4. Digital Media culture: Recent trends and challenges</p> <p>5. Media and globalization: India's journey from global communication to Information &amp; Communication technologies, globalization &amp; power</p>	<p><b>11/7 Information &amp; Media Culture</b>  <b>Media, Local Community and the Recent Trends</b></p> <p>1. Media evolution</p> <p>2. Information and local culture: India and Perspectives: impact on regional and local identities. Impact on global culture and its evolution in India and world</p> <p>3. Community culture and media in the era of globalization</p> <p>4. Digital Media culture: Recent trends and challenges</p> <p>5. Media and globalization: India's journey from global communication to Information &amp; Communication technologies, globalization &amp; power</p> <p><b>Responsible Answer</b></p>	<p>11/7 marks for overall answer for this section except 11/7 for the given in other subject</p>

Signature of Candidate: 



Signature of Subject Teacher: 

**EXAMINABLE SUBJECTS**  
**SECTION III of the M.V. Act 1947 and Rules thereunder including**  
**the V. Regulations/Instructions issued thereunder as amended**

**Working Plan and Implementation Report (2022-23)**

**Department**

**Faculty**

**Name of Teacher**

**Mr. Chaitanya Sankar**

**Class: B.Tech. Automobile**

**Subject: Introduction to Automotive**

**Subject Code: 202020101**

**No. of lectures allotted per week: 01**

**No. of lectures covered per semester: 01**

**No. of lectures allotted per semester: 01**

<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>November</b>	<p>Module 1 History of Automobile Industry                      Changing face of Automobile from Haulage to Road Motor                      Introduction to Vehicle Safety Publications                      History of Automobiles from 1847                      The Emergency 1975 Road Emergency                      Road Development of the Country from a Highway, State                      Expansion                      New Technology: Advancement in Hybrid Motor</p>	<p>Module 1 History of Automobile Industry                      Changing face of Automobile from Haulage to Road Motor                      Introduction to Vehicle Safety Publications                      The year of Unmanned Plane, Road 1947   <b>Partially not covered as per topic proposed</b></p>	<p>01                      4 lectures per week                      covered till 20/11/2022                      01 topic covered as per 11 lecture covered till 20/11/2022</p>
<b>December</b>	<p>The Emergency 1975 Road Emergency                      Road Development of the Country from a Highway, State                      Expansion                      New Technology: Advancement in Hybrid Motor                      New Motor with special reference to New the vehicle                      function                       Module of Power and its Process                      Introduction of Power                      The "New Process from the Engine to the Road"                      "What makes a good engine?"                      Science of a "good engine"                      Technology - a "good engine"</p>	<p>The Emergency 1975 Road Emergency                      Road Development of the Country from a Highway, State                      Expansion                      New Technology: Advancement in Hybrid Motor                      New Motor with special reference to New the vehicle                      function                       Module of Power and its Process                      Introduction of Power                      The "New Process from the Engine to the Road"   <b>Partially not covered as per topic proposed</b></p>	<p>01                      01 lecture covered till 20/11/2022                      01 lecture covered till 20/11/2022</p>



<p><b>February</b></p>	<p><b>What makes a good city?</b>          Summary of a good city          Types of Home Types, Environmental Friendliness, Education, Employment, Safety, etc.</p> <p><b>Module 18 Principles and Form:</b>          What makes a good building? Efficiency, Safety, Well-being, Sustainability, Balance, Proportion          Differences between a 2D and a 3D object          Criteria for Sustainability          Hand Drawn Arch Plans and Elevation of the form          Home Reports, Examine, Exhibits</p> <p><b>Module 19 Context in Architecture:</b>          Reports, Photos, Maps, Plans, Illustrations, Real Time Examples, Investigate, Analyze, Real Examples, Analyze Examples, Context in Architecture</p> <p><b>Module 20 Learning as a Part of Life</b>          Reflections on Learning</p>	<p><b>What makes a good city?</b>          Summary of a good city          Types of Home Types, Environmental Friendliness, Education, Employment, Safety, etc.</p> <p><b>Module 18 Principles and Form:</b>          What makes a good building? Efficiency, Safety, Well-being, Sustainability, Balance, Proportion          Differences between a 2D and a 3D object          Criteria for Sustainability          Hand Drawn Arch Plans and Elevation of the form          Home Reports, Examine, Exhibits</p> <p><b>Module 19 Context in Architecture:</b>          Reports, Photos, Maps, Plans, Illustrations, Real Time Examples, Investigate, Analyze, Real Examples, Analyze Examples, Context in Architecture</p> <p><b>Module 20 Learning as a Part of Life</b>          Reflections on Learning</p>	<p>10-12 (includes material covered in January and in February)</p>
<p><b>March</b></p>	<p><b>Experiencing a Home - Arch</b>          Capturing the Right Pictures for a Photo Gallery          Writing Captions, Captions and Layout</p>	<p><b>Experiencing a Home - Arch</b>          Capturing the Right Pictures for a Photo Gallery          Writing Captions, Captions and Layout</p>	<p>10-12 (includes material covered in January and in February)</p>
<p>Signature of Coordinator: _____</p>		<p>Signature of Subject Teacher: _____</p>	



**UNIVERSITY OF THE SOUTH ALABAMA**  
**SCHOOL OF BUSINESS COLLEGE OF ARTS AND SCIENCES**  
**190 S. BALDWIN AVENUE, MOBILE, ALABAMA 36688**

**Course Plan and Implementation Report (CPIR)**

<b>Department:</b>	MBA		
<b>Name of Teacher:</b>	Dr. Monte Todd Jones		
<b>Course Number:</b> <u>3300</u>	<b>Title:</b> Introduction to Advertising	<b>Subject Code:</b> <u>33000-00</u>	
<b>No. of Sections Offered per week:</b> <u>1</u>	<b>No. of Sections Offered per Semester:</b> <u>16</u>	<b>No. of Sections Offered per Semester:</b> <u>16</u>	

<b>Month of Teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Sections Offered per Week</b>
<b>December</b>	<p>Module 1 Introduction to Advertising</p> <p>1. Introduction to Advertising: Evolution, Importance, Practice</p> <p>Specifics, Economics, Ethics and Global Advertising</p> <p>2. Theory of Advertising: Consumer Behavioral Model, Stimulus-Response, Public Service, Agency, National Advertisements, Social &amp; Global Advertisements</p> <p>3. Ethics and Law in Advertising: Factors, National Model, Case, Copyright, Working with International Companies, Advertising costs of sales, Marketing Order, Treatment, Segmentation</p> <p>4. Social, Cultural and Economic Impact of Advertising: Direct and Indirect, Ethical and Consumer</p>	<p>Module 1 Introduction to Advertising</p> <p>1. Introduction to Advertising: Evolution, Importance, Practice</p> <p>Specifics, Economics, Ethics and Global Advertising</p> <p>2. Theory of Advertising: Consumer Behavioral Model, Stimulus-Response, Public Service, Agency, National Advertisements, Social &amp; Global Advertisements</p> <p>3. Ethics and Law in Advertising: Factors, National Model, Case, Copyright, Working with International Companies, Advertising costs of sales, Marketing Order, Treatment and Segmentation</p> <p>4. Social, Cultural and Economic Impact of Advertising: Direct, Indirect and Consumer, Ethical and Consumer</p>	<p>16</p> <p>Sections</p> <p>Offered</p> <p>per</p> <p>16 Weeks</p>
<b>January</b>	<p>Topic covered and advertising, The culture and advertising</p> <p>5. Theories: Stimulus-Response, AIDA, Hierarchy of Effects, etc.</p> <p>These</p>	<p>Topic covered and advertising, The culture and advertising</p> <p>6. Theories: Stimulus-Response, AIDA, Hierarchy of Effects, etc.</p> <p>These</p>	<p>16</p> <p>Sections</p> <p>Offered</p> <p>per</p> <p>16 Weeks</p>
<b>February</b>	<p>Module 2 Integrated Marketing Communications and</p> <p>7. IMC - Emergence, Role, Tools, Communications and</p> <p>IMC Planning Process</p>	<p>Module 2 Integrated Marketing Communications and</p> <p>7. IMC - Emergence, Role, Tools, Communications and</p> <p>IMC Planning Process</p>	<p>16</p> <p>Sections</p> <p>Offered</p> <p>per</p> <p>16 Weeks</p>



2. **Print Media and OOH Media:** Basic concepts, Types of Newspaper advertising, Advantages and Disadvantages of Newspaper advertising, Magazine, Factors to consider for Magazine advertising, OOH Advertising, Out-of-home advertising, Transit advertising, Point of Purchase advertising.

3. **Specialized Media:** Radio advertising, Advantages and Disadvantages of Radio advertising, Television advertising and its Advantages and Disadvantages, Film advertising and product placement, strategies and disadvantages.

4. **Public Relations:** Meaning of Public Relations, Types of PR, Difference between PR and Advertising, Relationship between Publicity and Advertising, Advantages and Disadvantages of Public Relations, Advantages and Disadvantages of Publicity.

5. **Sales Promotion and Direct Marketing:** Growth and Types of Sales Promotions, Advantages and Disadvantages, Growth of Direct Marketing and its types.

2. **Print Media and OOH Media:** Basic concepts, Types of Newspaper advertising, Advantages and Disadvantages of Newspaper advertising, Magazine, Factors to consider for Magazine advertising, OOH Advertising, Out-of-home advertising, Transit advertising, Point of Purchase advertising.

3. **Specialized Media:** Radio advertising, Advantages and Disadvantages of Radio advertising, Television advertising and its Advantages and Disadvantages, Film advertising and product placement, advantages and disadvantages.

4. **Public Relations:** Meaning of Public Relations, Types of PR, Difference between PR and Advertising, Difference between Publicity and Advertising, Advantages and Disadvantages of Public Relations, Advantages and Disadvantages of Publicity.

5. **Sales Promotions and Direct Marketing:** Growth and Types of Sales Promotions, Advantages and Disadvantages, Growth of Direct Marketing and its types.

**Module III**

1. **Introduction to Creativity:** Importance of Creative process, Creative strategy development, Advertising strategy forms, The idea, Promotional strategies, Types of Agents.

2. **Role of different elements in ads:** Copy, Image, Company, Message, Major Factors, Elements of Copy, Radio advertisement, words, words, words, advertisement, etc.

3. **Elements of copy:** Headline, Sub headline, Text, Body copy, Types of copy and design, creating method.

**Module III**

1. **Introduction to Creativity:** Importance of Creative process, Creative strategy development, Advertising strategy forms, The idea, Promotional strategies, Types of Agents.

2. **Role of different elements in ads:** Copy, Image, Company, Message, Major Factors, Elements of Copy, Radio advertisement, words, words, words, advertisement, etc.

3. **Elements of copy:** Headline, Sub headline, Text, Body copy, Types of copy and design, creating method.

**Theory**

**Module IV: Types of Advertising Agency: Department, Career and Career Trends in Advertising.**

1. **Types of Advertising Agency:** Full service, Creative Services, Media buying agency, In-house agency, Specialized agencies and others.

2. **Career department in agency:** Account handling, Production, Art, Copy, Media, Public relations, Human resources, Financial and others.

**Module IV: Types of Advertising Agency: Department, Career and Career Trends in Advertising.**

1. **Types of Advertising Agency:** Full service, Creative Services, Media buying agency, In-house agency, Specialized agencies and others.

2. **Career department in agency:** Account handling, Production, Art, Copy, Media, Public relations, Human resources, Financial and others.

IT  
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<p>Month</p>	<p>I. Labor Supply: Total advertising, Direct advertising, General advertising, Field advertising, Administrative Advertising, Media Advertising.</p>	<p>I. Labor Supply: Total advertising, Direct advertising, General advertising, Field advertising, Administrative Advertising, Media Advertising.</p> <p>Essential factors: Demand advertising factors.</p>	<p>I. I          Includes          Income          II. I          Includes as          checked          III. I          Includes as          checked          IV. I          Includes as          checked          V. I          Includes as          checked</p>
<p>Signature of Coordinator: </p>		<p>Signature of Subject Teacher: </p>	



**LADY CHANDLER TRUST'S**  
**WILHELMINE B. GIBNEY COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**100 'A' BARRINGTONMAN ROAD, ANAPURUPE, MUMBAI - 400042**

**Semester (Theory and Experiments) Course (2023-24)**

<b>Department</b>	<b>PHYSICS</b>	
<b>Name of Teacher</b>	<b>Dr. Chaitany Shah</b>	
<b>Class (Title - Semester)</b>	<b>Subject: Introduction to Photography</b>	<b>Subject Code Number: 100</b>
<b>No. of hours allotted per week (in)</b>	<b>No. of hours covered per semester (in)</b>	<b>No. of hours allotted per Semester (in)</b>

Sl. No. of marking	Topic / Program	Topic Covered	No. of hours per week
1	<p><b>1. Camera: The basic theory</b></p> <p><b>1. The Body: The working mechanism</b></p> <ul style="list-style-type: none"> <li>• The lens of the system</li> <li>• How the camera sees differently than human eye</li> <li>• Limitations and Working of camera</li> <li>• Types of camera: Small Full frame, Half frame</li> <li>• IFF (1/2 Medium, Large format) movement</li> <li>• Exposure time</li> <li>• Types of camera: DSLR, View Rangefinder, Mirrorless.</li> </ul> <p><b>2. Aperture: The job of the camera</b></p> <ul style="list-style-type: none"> <li>• Ray diagram</li> <li>• Lateral inversion of light crossing lens</li> <li>• Factors in Exposure calculation</li> <li>• Active layer of depth of field and Depth of camera</li> <li>• F numbers and aperture scale</li> <li>• Application of Depth of field in advertising and illustration</li> </ul> <p><b>3. Shutter: The Clock work</b></p> <ul style="list-style-type: none"> <li>• How it works: gate and trigger system</li> <li>• Lateral inversion of light</li> <li>• Major factor in Exposure calculation</li> <li>• Manipulation in controlling motion</li> <li>• Shutter type: Mirror (leaf) and Leafless (electronic) Shutter</li> </ul>	<p><b>1. Camera: The basic theory</b></p> <p><b>1. The Body: The working mechanism</b></p> <ul style="list-style-type: none"> <li>• The lens of the system</li> <li>• How the camera sees differently than human eye</li> <li>• Limitations and Working of camera</li> <li>• Features of camera: Small Full frame, Half frame</li> <li>• IFF (1/2 Medium, Large format) movement</li> <li>• Exposure time</li> <li>• Types of camera: DSLR, View Rangefinder, Mirrorless.</li> </ul> <p><b>2. Aperture: The job of the camera</b></p> <ul style="list-style-type: none"> <li>• Ray diagram</li> <li>• Lateral inversion of light crossing lens</li> <li>• Factors in Exposure calculation</li> <li>• Active layer of depth of field and Depth of camera</li> <li>• F numbers and aperture scale</li> <li>• Application of Depth of field in advertising and illustration</li> </ul> <p><b>3. Shutter: The Clock work</b></p> <ul style="list-style-type: none"> <li>• How it works: gate and trigger system</li> <li>• Lateral inversion of light</li> <li>• Major factor in Exposure calculation</li> <li>• Manipulation in controlling motion</li> <li>• Shutter type: Mirror (leaf) and Leafless (electronic) Shutter</li> </ul>	<p>10 hours per week 14 x 100 1400 hours in 17</p>



	<ul style="list-style-type: none"> <li>• Application of various theorems on similarity and congruence</li> <li>• Specialization with Study (Prove then use)</li> </ul> <p><b>4. Image center:</b> The image that can</p> <ul style="list-style-type: none"> <li>• The image center or center</li> <li>• Image of origin</li> <li>• Image of perpendicular</li> <li>• Image of perpendicular</li> <li>• Image of bisector (2D and 3D)</li> <li>• Image of perpendicular bisector (2D and 3D)</li> </ul> <p><b>5. Translation:</b> The translation center</p> <ul style="list-style-type: none"> <li>• The translation center</li> <li>• Image of origin</li> <li>• Image of perpendicular</li> <li>• Image of bisector (2D and 3D)</li> <li>• Image of perpendicular bisector (2D and 3D)</li> <li>• Image of origin</li> </ul>	<ul style="list-style-type: none"> <li>• Application of various theorems on similarity and congruence</li> <li>• Specialization with Study (Prove then use)</li> </ul> <p><b>4. Image center:</b> The image that can</p> <ul style="list-style-type: none"> <li>• The image center or center</li> <li>• Image of origin</li> <li>• Image of perpendicular</li> <li>• Image of perpendicular</li> <li>• Image of bisector (2D and 3D)</li> <li>• Image of perpendicular bisector (2D and 3D)</li> </ul> <p><b>5. Translation:</b> The translation center</p> <ul style="list-style-type: none"> <li>• The translation center</li> <li>• Image of origin</li> <li>• Image of perpendicular</li> <li>• Image of bisector (2D and 3D)</li> <li>• Image of perpendicular bisector (2D and 3D)</li> <li>• Image of origin</li> </ul>	
<p>100</p>	<p><b>6. Line passing through</b></p> <p><b>7. The set of centers:</b> Construction</p> <ul style="list-style-type: none"> <li>• Step 1: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 2: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 3: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 4: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 5: Draw a line (horizontal, vertical, diagonal)</li> </ul> <p><b>8. Equal length:</b> Which one is smaller</p> <ul style="list-style-type: none"> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> </ul> <p><b>9. Equal length:</b> Which one is smaller</p> <ul style="list-style-type: none"> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> </ul> <p><b>10. Image with:</b> The image that can</p> <p><b>11. Coverage angle:</b> The angle that can</p> <ul style="list-style-type: none"> <li>• The angle that can</li> <li>• The angle that can</li> <li>• The angle that can</li> </ul> <p><b>12. Types of lines:</b> The lines that can</p> <ul style="list-style-type: none"> <li>• The lines that can</li> <li>• The lines that can</li> <li>• The lines that can</li> </ul>	<p><b>6. Line passing through</b></p> <p><b>7. The set of centers:</b> Construction</p> <ul style="list-style-type: none"> <li>• Step 1: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 2: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 3: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 4: Draw a line (horizontal, vertical, diagonal)</li> <li>• Step 5: Draw a line (horizontal, vertical, diagonal)</li> </ul> <p><b>8. Equal length:</b> Which one is smaller</p> <ul style="list-style-type: none"> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> </ul> <p><b>9. Equal length:</b> Which one is smaller</p> <ul style="list-style-type: none"> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> <li>• The line is smaller for the line of perpendicular</li> </ul> <p><b>10. Image with:</b> The image that can</p> <p><b>11. Coverage angle:</b> The angle that can</p> <ul style="list-style-type: none"> <li>• The angle that can</li> <li>• The angle that can</li> <li>• The angle that can</li> </ul> <p><b>12. Types of lines:</b> The lines that can</p> <ul style="list-style-type: none"> <li>• The lines that can</li> <li>• The lines that can</li> <li>• The lines that can</li> </ul>	<p>100</p>



• General program issues: Matrix, Fall 2009, Fall 2010

**4. Light Parameters of light: The essential one number!**

**11. Intensity and Exposure: Define your terms!**  
How much light: illuminance vs exposure  
Exposure triangle (ISO, f, t): The magic of exposure  
**12. Direction and Lighting: Lighting for Cinema: Direction and Intensity**  
How much: Direction/Intensity/Quality  
Direction: Light  
Lighting: Quality  
Three-point lighting  
Key light  
Fill (Control level) lighting ratio  
Ratio: Intensity or background light  
Types of lighting  
Practice: Light, Intensity and Mood in drama

**13. Quality and Intensity: Why there are shadows and softness**

How soft or hard light  
Direction: use of light source  
Soft: Soft, Control, Warm  
Direction: Mid soft, mid hard, control, soft shadow  
Large: Soft soft, hard control, shadowless  
Direction: direction, soft hard, soft hard, soft hard, soft hard

**14. Color and Mood: What tells Color or Mood**

Color of light source: What distinguishes color  
Ratio: Color temperature from light flow color  
What colors: Neutralizing  
Temperature: Kelvin and RGB  
Color and Mood (continued)

**15. Message: The Director is you & the King**

LQA notes: How light of exposure  
Direction: ISO, f, t, ISO, f, t, ISO, f, t  
ISO: ISO and Shutter speed  
Average: Color temperature from Matrix Form  
Matrix  
Exposure: Matrix M, A, S, T and their program  
Matrix  
How to read: Matrix/Exposure/ISO/Direction

• General program issues: Matrix, Fall 2009, Fall 2010

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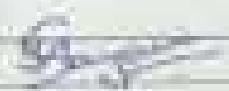
Page 1

- 1. Introduction:** Art of teaching / Way of presenting a subject
- 2. Types and Aims of tests**
- Classification of tests and properties
  - Aims of tests (2012, 2014, 2015)
- 3. Types of tests**
- Unit Tests, Test, Term Exams, Session Tests and
  - Types of tests: Subject, Institute, National, University of
  - Types
- 4. Nature of examinations**
- Role of teacher / Examiners / Examinations / Examinations
  - Types: (a) Written tests, (b) Oral examinations
  - Methods: (a) Written tests
- 5. Marking the tests**
- Grading, Passmarks, Marking
- 6. Assessment and Progression**
- 1. End of term examination: (a) Written tests and
  - Progression
  - Methods: (a) Written tests
  - Assessment: (a) Written tests
  - Progression: (a) Written tests
  - Methods: (a) Written tests
  - Aims: (a) Written tests and progression

- 7. Types of tests: (a) Written tests**
- 8. Types of tests: (a) Written tests, (b) Oral tests, (c) Written tests, (d) Oral tests**
- 9. Assessment: (a) Written tests, (b) Oral tests, (c) Written tests, (d) Oral tests**
- 10. Progression: (a) Written tests, (b) Oral tests, (c) Written tests, (d) Oral tests**
- 11. Methods: (a) Written tests, (b) Oral tests, (c) Written tests, (d) Oral tests**
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September

Signature of Exam Officer




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Signature of Subject Teacher



11 | Institute  
Name  
12 | Institute  
Address  
13 | Institute  
Name  
Address  
14 | Institute  
Name  
Address

**Uttarakhand Sahitya Akademi**  
**Uttarakhand Sahitya Akademi, Dehra Dun, Uttarakhand**  
**Uttarakhand Sahitya Akademi, Dehra Dun, Uttarakhand**

**English Proficiency Assessment Report (EPAR)**

<b>Department</b>		<b>Grade Level</b>	
<b>Name of Teacher</b>		<b>No. of Sessions</b>	
<b>Year of Birth</b>	<b>Subject</b>	<b>Grade Level</b>	<b>Salary Code (Minimum-Maximum)</b>
<b>No. of Sessions Attended per Week</b>	<b>No. of Sessions / Assessment / Term</b>	<b>No. of Sessions / Assessment / Term</b>	<b>No. of Sessions / Assessment / Term</b>
<b>Grade of marking</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Sessions per topic</b>
<b>Term</b>	<p><b>Proposed:</b></p> <ol style="list-style-type: none"> <li>1. The City of London (Reading Comprehension)</li> <li>2. The City of London (Writing Skill)</li> <li>3. The City of London (Grammar)</li> <li>4. The City of London (Project)</li> <li>5. The City of London (Project)</li> </ol> <p><b>Topic Covered:</b></p> <ol style="list-style-type: none"> <li>1. The City of London (Reading Comprehension)</li> <li>2. The City of London (Writing Skill)</li> <li>3. The City of London (Grammar)</li> <li>4. The City of London (Project)</li> <li>5. The City of London (Project)</li> </ol>	<p><b>Proposed:</b></p> <ol style="list-style-type: none"> <li>1. The City of London (Reading Comprehension)</li> <li>2. The City of London (Writing Skill)</li> <li>3. The City of London (Grammar)</li> <li>4. The City of London (Project)</li> <li>5. The City of London (Project)</li> </ol> <p><b>Topic Covered:</b></p> <ol style="list-style-type: none"> <li>1. The City of London (Reading Comprehension)</li> <li>2. The City of London (Writing Skill)</li> <li>3. The City of London (Grammar)</li> <li>4. The City of London (Project)</li> <li>5. The City of London (Project)</li> </ol>	<p style="text-align: center;"><b>01</b>  <b>Topic A</b>  <b>Completed</b>  <b>Since 15th July 2021</b>  <b>01 Sessions per week</b>  <b>per term</b></p>
<b>Term</b>	<ul style="list-style-type: none"> <li>• The City of London</li> <li>• The City of London (Reading Comprehension)</li> <li>• The City of London (Writing Skill)</li> <li>• The City of London (Grammar)</li> <li>• The City of London (Project)</li> </ul> <p><b>Topic Covered:</b></p> <ol style="list-style-type: none"> <li>1. The City of London</li> <li>2. The City of London (Reading Comprehension)</li> <li>3. The City of London (Writing Skill)</li> <li>4. The City of London (Grammar)</li> <li>5. The City of London (Project)</li> </ol>	<ul style="list-style-type: none"> <li>• The City of London</li> <li>• The City of London (Reading Comprehension)</li> <li>• The City of London (Writing Skill)</li> <li>• The City of London (Grammar)</li> <li>• The City of London (Project)</li> </ul> <p><b>Topic Covered:</b></p> <ol style="list-style-type: none"> <li>1. The City of London</li> <li>2. The City of London (Reading Comprehension)</li> <li>3. The City of London (Writing Skill)</li> <li>4. The City of London (Grammar)</li> <li>5. The City of London (Project)</li> </ol>	<p style="text-align: center;"><b>01</b>  <b>Topic A</b>  <b>Completed</b>  <b>Since 15th July 2021</b>  <b>01 Sessions per week</b>  <b>per term</b></p>



	<ul style="list-style-type: none"> <li>• <b>Healthcare: Theoretical Approaches and Skills Development</b></li> <li>• <b>Regional Wellness: Technological Innovations</b></li> <li>• <b>Global Issues: Role of Communication</b></li> </ul> <b>Media and Identity</b> <ul style="list-style-type: none"> <li>• <b>Personalized Health Communication</b></li> <li>• <b>Cultural Intelligence and Communication</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Healthcare: Theoretical Approaches and Skills Development</b></li> <li>• <b>Regional Wellness: Technological Innovations</b></li> <li>• <b>Global Issues: Role of Communication</b></li> </ul> <b>Media and Identity</b> <ul style="list-style-type: none"> <li>• <b>Personalized Health Communication</b></li> <li>• <b>Cultural Intelligence and Communication</b></li> </ul>	
<b>Objectives</b>	<b>1. Theories of Media and Health</b> <ul style="list-style-type: none"> <li>• <b>Media effects and behavior</b></li> <li>• <b>Media effect theories and the cognitive-affective-behavioral model</b></li> <li>• <b>Health Communication Theories</b></li> <li>• <b>Diffusion Theory</b></li> <li>• <b>Behavioral Model of Health Communication: media channels and media content</b></li> </ul> <b>How: Media and the age of Internet</b> <b>2. Choosing Making Preparation:</b> <b>Health Indicators- Participatory action</b> <b>Assessing as Public Health: Educational Theory</b> <b>Media and a concept of health village in the age of Health</b> <b>How and Evaluation in the age of the Internet</b>	<b>1. Theories of Media and Health</b> <ul style="list-style-type: none"> <li>• <b>Media effects and behavior</b></li> <li>• <b>Media effect theories and the cognitive-affective-behavioral model</b></li> <li>• <b>Health Communication Theories</b></li> <li>• <b>Diffusion Theory</b></li> <li>• <b>Behavior and Health media: media channels, media content, media communication</b></li> </ul> <b>How: Media and the age of Internet</b> <b>2. Choosing Making Preparation:</b> <b>Health Indicators- Participatory action</b> <b>Assessing as Public Health: Educational Theory</b> <b>Media and a concept of Health Village in the age of Health</b> <b>How and Evaluation in the age of the Internet</b>	<p>It is includes content related to the subject for the year- IT and its application</p>
<b>Reference</b>		<b>Relevant reference</b>	<p>It includes with relevant reference</p>
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	

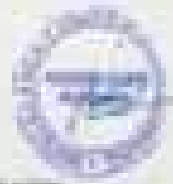



**LADY CHURCHILL TRUST'S**  
**INSTITUTE OF STUDIES IN ARTS, SCIENCE & COMMUNITY**  
**DR. S. RADHAKRISHNAN STREET, ANANDHILAI, CHENNAI - 600002**


**Teaching Plan and Implementation Record (2022-23)**

<b>Department</b>	English/Arts	
<b>Name of Teacher</b>	Sangeetha	
<b>Class (Year)</b>	<b>Subject</b>	<b>Subject Code Number (2022-23)</b>
Second / III	Composition and Mathematics II	ENR202
<b>No. of lessons Allotted per week (20)</b>	<b>No. of lessons Covered per Semester (27)</b>	<b>No. of lessons Allotted per Semester (20)</b>

Weeks of teaching	Topic Proposed	Topic Covered	No. of lessons per week
2022	<p><b>UNIT I.1.1 Phonology: Word based image writing activities</b></p> <p><b>1. Introduction to Phonology</b></p> <ul style="list-style-type: none"> <li>• Image writing forms</li> <li>• Image vs. Verse</li> <li>• What is an Phonology and what is an image writing form</li> </ul> <p><b>2. Phonology Workshop</b></p> <ul style="list-style-type: none"> <li>• The early, middle, variety</li> <li>• Primary for, primary for, Primary problem</li> </ul> <p><b>3. Working with Image</b></p> <ul style="list-style-type: none"> <li>• Image, multi, image, image, image</li> <li>• Image, multi, image, image, image</li> <li>• What is the perfect image?</li> <li>• Copying to read and understand</li> <li>• Reading to understand</li> </ul> <p><b>4. Image Editing</b></p> <ul style="list-style-type: none"> <li>• Image, image</li> <li>• Image, image</li> <li>• Image, image, image, image</li> </ul> <p><b>5. Working with Text</b></p> <ul style="list-style-type: none"> <li>• Text, image, image, image, image, image</li> <li>• Text, image, image, image, image</li> <li>• Reading to understand, image, image, image</li> </ul>	<p><b>UNIT I.1.1 Phonology: Word based image writing activities</b></p> <p><b>1. Introduction to Phonology</b></p> <ul style="list-style-type: none"> <li>• Image writing form</li> <li>• Image vs. Verse</li> <li>• What is an Phonology and what is an image writing form</li> </ul> <p><b>2. Phonology Workshop</b></p> <ul style="list-style-type: none"> <li>• The early, middle, variety</li> <li>• Primary for, primary for, Primary problem</li> </ul> <p><b>3. Working with Image</b></p> <ul style="list-style-type: none"> <li>• Image, multi, image, image, image</li> <li>• Image, multi, image, image, image</li> <li>• What is the perfect image?</li> <li>• Copying to read and understand</li> <li>• Reading to understand</li> </ul> <p><b>4. Image Editing</b></p> <ul style="list-style-type: none"> <li>• Image, image</li> <li>• Image, image</li> <li>• Image, image, image, image</li> </ul> <p><b>5. Working with Text</b></p> <ul style="list-style-type: none"> <li>• Text, image, image, image, image, image</li> <li>• Text, image, image, image, image</li> <li>• Reading to understand, image, image, image</li> </ul>	<p>10                      (20/21)                      covered                      from                      10/10/21                      10/10/21                      10/10/21</p>




	<p><b>MSMT 1.1.1 Conditions: Total based Writing address:</b>  <b>1. Introduction to Conditions</b>          Conditions Addressed, Test Item, Reporting Item in Conditions Addressed to Issues</p> <p><b>2. Using text</b>          Address and paragraph text, Identifying Text, Identifying Objects and text, Writing Text-based Issues, Linking Text to Issues (see 2.1)</p>	<p><b>MSMT 1.1.1 Conditions: Total based Writing address:</b>  <b>1. Introduction to Conditions</b>          Conditions Addressed, Test Item, Reporting Item in Conditions Addressed to Issues</p> <p><b>Focus not covered in per state proposal.</b></p>	
<p><b>Feb</b></p>	<p><b>2. Using text</b>          Address and paragraph text, Identifying Text, Identifying Objects and text, Writing Text-based Issues, Linking Text to Issues (see 2.1)</p> <p><b>3. Exploring text</b>          Basic Issues: Call, Cross, Context, Shaping and Style, Structure, Content, Content to Content, Knowledge, Evidence, Issues, Logic</p> <p><b>4. Applying effects</b>          Power of Words, Emphasis and Intensity Effects, Structure, Language Effects, Transitions, Clarity, Style Effects and Focus Effect</p> <p><b>5. Reporting in Conditions</b>          Reporting, Types of issues, Reporting to other address</p> <p><b>MSMT 1.1.1 Issues/Spoken Addressed: Content Addressed</b>  <b>1. Introduction to Issues/Spoken Content Addressed</b>          Structure of using Issues, Application of Issues</p> <p><b>2. Test Items in Issues</b>          Format of test, Purpose of test activities, Applying test to different design features, Test alignment with embedded design</p> <p><b>3. Using patterns</b>          Using patterns for different types of publications used in speak, Reporting in speak, Progression in speak</p> <p><b>4. Effectiveness in speak</b>          Evaluating design in spoken address, Effectiveness in the design, Reporting, Reporting in the address of the publication</p>	<p><b>2. Using text</b>          Address and paragraph text, Identifying Text, Identifying Objects and text, Writing Text-based Issues, Linking Text to Issues (see 2.1)</p> <p><b>3. Exploring text</b>          Basic Issues: Call, Cross, Context, Shaping and Style, Structure, Content, Content to Content, Knowledge, Evidence, Issues, Logic</p> <p><b>4. Applying effects</b>          Power of Words, Emphasis and Intensity Effects, Structure, Language Effects, Transitions, Clarity, Style Effects and Focus Effect</p> <p><b>5. Reporting in Conditions</b>          Reporting, Types of issues, Reporting to other address</p> <p><b>MSMT 1.1.1 Issues/Spoken Addressed: Content Addressed</b>  <b>1. Introduction to Issues/Spoken Content Addressed</b>          Structure of using Issues, Application of Issues</p> <p><b>2. Test Items in Issues</b>          Format of test, Purpose of test activities, Applying test to different design features, Test alignment with embedded design</p> <p><b>3. Using patterns</b>          Using patterns for different types of publications used in speak, Reporting in speak, Progression in speak</p> <p><b>4. Effectiveness in speak</b>          Evaluating design in spoken address, Effectiveness in the design, Reporting, Reporting in the address of the publication</p>	<p>in          the          state          and          federal          education          standards          and          testing          programs</p> 


	<p><b>1. Exporting files</b> Types of files. Exporting for different publication templates. Navigation: margins etc.</p> <p><b>WORD 2.0 &amp; Previous File: Table of contents. Table of contents software</b></p> <p><b>1. Introduction to editing</b> Editing experience. Correcting errors. Editing for different issues (first or second).</p> <p><b>2. Introduction to proofing</b> How proofing helps in editing. Understanding the author. Exporting files. Exporting with tables and table layout. Status of editing (includes different templates).</p>	<p>Exporting according to the color use of the publication.</p> <p><b>1. Exporting files</b> Types of files. Exporting for different publication templates. Navigation: margins etc.</p> <p>Features not covered in previous proposal.</p>	
<p>Images</p>	<p><b>WORD 2.0 &amp; Previous File: Table of contents. Table of contents software</b></p> <p><b>1. Introduction to editing</b> Editing experience. Table editing examples. Editing for different issues (first or second).</p> <p><b>2. Introduction to proofing</b> How proofing helps in editing. Understanding the author. Exporting files. Exporting with tables and table layout. Status of editing (includes different templates).</p> <p><b>3. Understanding the layout</b> Understanding different file formats (RTF, HTML, PDF, etc.). Exporting for various file types. Formatting rules (font, color, etc.).</p> <p><b>4. Using color grading</b> What is color grading. Examples of color grading. Using files and process to color grading. Applying process to layout for editing.</p> <p><b>5. Exporting and rendering</b> Exporting for different formats. Choosing right format for exporting. Choosing fonts, table rendering, Rendering and status of the layout. Rendering quality and time to render rendering.</p> <p>Word 2.0 and Previous File: Table of contents, Table of contents software</p>	<p><b>WORD 2.0 &amp; Previous File: Table of contents. Table of contents software</b></p> <p><b>1. Introduction to editing</b> Editing experience. Correcting errors. Editing for different issues (first or second).</p> <p><b>2. Introduction to proofing</b> How proofing helps in editing. Understanding the author. Exporting files. Exporting with tables and table layout. Status of editing (includes different templates).</p> <p><b>3. Understanding the layout</b> Understanding different file formats (RTF, HTML, PDF, etc.). Exporting for various file types. Formatting rules (font, color, etc.).</p> <p><b>4. Using color grading</b> What is color grading. Examples of color grading. Using files and process to color grading. Applying process to layout for editing.</p> <p><b>5. Exporting and rendering</b> Exporting for different formats. Choosing right format for exporting. Choosing fonts, table rendering, Rendering and status of the layout. Rendering quality and time to render rendering.</p>	<p>It will include several images of layout for layout rendering. It will include several images of layout rendering. It will include several images of layout rendering.</p> 



	<p><b>1. Introduction to Digital Audio</b>          Compression, Audio lossy and lossless / Understanding Digital audio Sampling, bit rate</p> <p><b>2. Concepts of Audio Digital</b>          Mono, Stereo, Quadrature Amplitude Modulation, 2 / Channel, Substrate Difference in Audio Digital and DTS, More about DTS than any other audio</p>	<p><b>Module 2 Sound Compression Schemes, Sound Editing Software</b></p> <p><b>1. Introduction to Digital Audio</b>          Compression, Audio lossy and lossless / Understanding Digital audio Sampling, bit rate</p> <p>Exercises are covered in pre-assignment topic</p>	
<p>Signature</p>	<p><b>1. Concepts of Audio Digital</b>          Mono, Stereo, Quadrature Amplitude Modulation, 2 / Channel, Substrate Difference in Audio Digital and DTS, More about DTS than any other audio</p> <p><b>2. Sound Recording</b>          Recording Techniques (Microphone and Types of microphone, Preamp, Filter, eq, Sound card type from audio interface, External audio from CD, Difference audio using software like, WMA, CMA, MP3 Digital Compression)</p> <p><b>3. Working with Sound</b>          Work with, Play, Cut, Merge, Transpose/Stretch Working with audio file, More audio sampling rates, More about using Matlab, Binary and hexadecimal Sound processing techniques, Channel conversion, Bit depth conversion</p> <p><b>4. Advanced Sound Processing</b>          Filter, Echo, Reverb, Chorus, Mixing, equal, Noise gate, Expansion, Compression and Limit, Reverb, Surround Sound, Stereo to Mono Conversion, CD and MP3 audio format</p>	<p><b>1. Concepts of Audio Digital</b>          Mono, Stereo, Quadrature Amplitude Modulation, 2 / Channel, Substrate Difference in Audio Digital and DTS, More about DTS than any other audio</p> <p><b>2. Sound Recording</b>          Recording Techniques (Microphone and Types of microphone, Preamp, Filter, eq, Sound card type from audio interface, External audio from CD, Difference audio using software like, WMA, CMA, MP3 Digital Compression)</p> <p><b>3. Working with Sound</b>          Work with, Play, Cut, Merge, Transpose/Stretch Working with audio file, More audio sampling rates, More about using Matlab, Binary and hexadecimal Sound processing techniques, Channel conversion, Bit depth conversion</p> <p><b>4. Advanced Sound Processing</b>          Filter, Echo, Reverb, Chorus, Mixing, equal, Noise gate, Expansion, Compression and Limit, Reverb, Surround Sound, Stereo to Mono Conversion, CD and MP3 audio format</p> <p>Exercises are covered in pre-assignment topic</p>	<p>The students should submit answers to pre-assignment to check their understanding</p>
<p>Signature of Lecturer</p>	 	<p>Signature of Subject Teacher</p> 	

**LAM CHARITABLE TRUST**  
**SCHOOL OF BUSINESS COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. Y. RAJAKRISHNAN MARG, ANANDHILL MUMBAI - 400 008**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>NAME</b>	
<b>Name of Teacher</b>		<b>MR. HEMANT KISHOR JAY</b>	
<b>Course NAME</b> <b>Business - III</b>		<b>Subject: Corporate Communication and Public Relations</b>	
<b>Subject Code: BAAMCC204</b>		<b>Subject Code: BAAMCC204</b>	
<b>No. of Lectures Allotted per week: 02</b>		<b>No. of Lectures Covered per Semester: 17</b>	
<b>No. of Lectures Allotted per week: 02</b>		<b>No. of Lectures Allotted per Semester: 02</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Lectures per topic</b>
<b>June</b>	<p>Module 1 Foundations of Corporate Communication</p> <p>1. Introduction to Corporate Communication</p> <p>Meaning, Need and scope of Corporate Communication</p> <p>Internal Public Media Systems</p> <p>2. Role of Public in Corporate Communication</p> <p>Corporate Identity, Meaning and Features</p> <p>Corporate Image, Meaning, Factors influencing Corporate Image, Corporate Image creation, maintenance &amp; restoration</p> <p>Corporate Reputation &amp; Management: Meaning, Advantages of Good Corporate Reputation</p> <p>3. Ethics and law in Corporate Communication</p> <p>Importance of Ethics in Corporate Communication</p> <p>Professional Code of Ethics</p> <p>Mass Media Law: Defamation, Infringement of Privacy, Copyright Act, Cybercrime and ITI</p>	<p>Module 1 Foundations of Corporate Communication</p> <p>1. Introduction to Corporate Communication</p> <p>Meaning, Need and scope of Corporate Communication</p> <p>Internal Public Media Systems</p> <p>2. Role of Public in Corporate Communication</p> <p>Corporate Identity: Meaning and Features</p> <p>Corporate Image: Meaning, Factors influencing Corporate Image, Corporate Image creation, maintenance &amp; restoration</p> <p><b>Practical was covered as per topic proposed.</b></p> 	<p>1. First 5 lectures from 14th 2023</p> <p>02 lectures per week for 11 days in Topic are completed. Refer to syllabus and given to other subjects</p>
<b>July</b>	<p>Corporate Reputation &amp; Management: Meaning, Advantages of Good Corporate Reputation</p> <p>3. Ethics and law in Corporate Communication</p> <p>Importance of Ethics in Corporate Communication</p> <p>Professional Code of Ethics</p> <p>Mass Media Law: Defamation, Infringement of Privacy, Copyright Act, Cybercrime and ITI</p>	<p>Corporate Reputation &amp; Management: Meaning, Advantages of Good Corporate Reputation</p> <p>3. Ethics and law in Corporate Communication</p> <p>Importance of Ethics in Corporate Communication</p> <p>Professional Code of Ethics</p> <p>Mass Media Law: Defamation, Infringement of Privacy, Copyright Act, Cybercrime and ITI</p>	<p>11. 02 lectures covered per 11</p>

	<p><b>Module II Understanding Public Relations:</b></p> <p>1. Introduction and growth of PR- Indian Scenario: Mapping, Definitions, Scope, Objectives and Significance of PR in Business.</p> <p>Tracing Growth of PR in India, Internal &amp; External PR, Reasons for Emerging International Public Relations, Mapping &amp; Differentiation from various National, India and International PR agencies.</p> <p>Advantages &amp; Disadvantages of Public Relations.</p> <p>2. Role of PR in various sectors:</p> <p>Healthcare, Entertainment, Banking and Finance, Real Estate, Fashion and Lifestyle and Service.</p> <p>3. Structure and Form of PR.</p> <p>Creating, Promoting, Publicity, Propaganda, Persuasion, Emotional Story, Diffusion Theory and Value-sets of Public Relations (Pre-condition, Pre-release, Media Reaction, Advertisements, Sponsorship)</p>	<p><b>Module III Understanding Public Relations:</b></p> <p>1. Introduction and growth of PR- Indian Scenario: Mapping, Definitions, Scope, Objectives and Significance of PR in Business.</p> <p>Tracing Growth of PR in India, Internal &amp; External PR, Reasons for Emerging International Public Relations, Mapping &amp; Differentiation from various National, India and International PR agencies.</p> <p>Advantages &amp; Disadvantages of Public Relations.</p> <p>2. Role of PR in various sectors:</p> <p>Healthcare, Entertainment, Banking and Finance, Real Estate, Fashion and Lifestyle and Service.</p> <p>Practice set covered as per topic proposed.</p>	
<p>Assign</p>	<p>1. Structure and Form of PR.</p> <p>Creating, Promoting, Publicity, Propaganda, Persuasion, Emotional Story, Diffusion Theory and Value-sets of Public Relations (Pre-condition, Pre-release, Media Reaction, Advertisements, Sponsorship)</p> <p><b>Module II (1) PR's Range of Services:</b></p> <p>1. Media Relations: Importance of Media Relations, Structure of Media Information, Mapping &amp; Internal Media Relations, Principles of Good Media Relations, Media analysis &amp; evaluation.</p> <p>2. Employee Communication</p> <p>Structure of Employee Communications, Organizing Employee Communications, Benefits of Good Employee Communication, Steps in Implementing an Effective Employee Communication Programs, Role of Management in Employee Communication.</p> <p>3. Crisis Communication.</p>	<p>1. Structure and Form of PR.</p> <p>Creating, Promoting, Publicity, Propaganda, Persuasion, Emotional Story, Diffusion Theory and Value-sets of Public Relations (Pre-condition, Pre-release, Media Reaction, Advertisements, Sponsorship)</p> <p><b>Module III (1) PR's Range of Services:</b></p> <p>1. Media Relations: Importance of Media Relations, Structure of Media Information, Mapping &amp; Internal Media Relations, Principles of Good Media Relations, Media analysis &amp; evaluation.</p> <p>2. Employee Communication</p> <p>Structure of Employee Communications, Organizing Employee Communications, Benefits of Good Employee Communication, Steps in Implementing an Effective Employee Communication Programs, Role of Management in Employee Communication.</p> <p>3. Crisis Communication.</p>	<p>Prq (to be held internal exam)</p> 

	<p>Impact of COVID-19 on the community in terms of health, education, and the economy. Case studies: Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p> <p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p>	<p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p> <p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p>	
<p>September</p>	<p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p> <p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p>	<p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p> <p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p>	<p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p> <p>Students will learn about the impact of COVID-19 on the community in terms of health, education, and the economy. Case studies on the impact of COVID-19 on the community in terms of health, education, and the economy.</p>
<p>Signature of Coordinator: </p>	<p>Signature of Support Teacher: </p>		



**UNIVERSITY OF CALICUT**  
**UNIVERSITY COLLEGE OF EDUCATION, KALAMANGALAM**  
**DEPARTMENT OF EDUCATION**

**Building Plan and Implementation Report (BIPR)**

<b>Department</b>		<b>020001</b>	
<b>Name of Teacher</b>		<b>Dr. Daisy M.A</b>	
<b>Class Subject</b> <b>Science - II</b>		<b>Subject Code</b> <b>0200000101</b>	<b>Subject Code</b> <b>0200000102</b>
<b>No. of lessons planned per week</b> <b>10</b>		<b>No. of lessons covered per week</b> <b>10</b>	<b>No. of lessons attended per student</b> <b>10</b>
<b>Weeks of working</b>	<b>Topic Planned</b>	<b>Topic Covered</b>	<b>No. of students who</b>
<b>Week 1</b>	<p><b>Module 1: Matter</b>                  Unit 1: Matter in our surroundings</p> <ul style="list-style-type: none"> <li>1. States of Matter</li> <li>2. Mass of Matter</li> <li>3. Understanding the Language of Science</li> <li>4. Science and Technology in Modern World</li> </ul> <p><b>Module 2: Understanding properties of Matter</b></p> <ul style="list-style-type: none"> <li>1. Solids, Liquids and Gases</li> </ul> <p><b>Module 3: Matter in Motion</b>                  Unit 1: Motion</p>	<p><b>Module 1: Matter</b>                  Unit 1: Matter in our surroundings</p> <ul style="list-style-type: none"> <li>1. States of Matter</li> <li>2. Mass of Matter</li> <li>3. Understanding the Language of Science</li> <li>4. Science and Technology in Modern World</li> </ul> <p><b>Module 2: Understanding properties of Matter</b></p> <ul style="list-style-type: none"> <li>1. Solids, Liquids and Gases</li> </ul> <p><b>Module 3: Matter in Motion</b>                  Unit 1: Motion</p>	<b>10</b>
<b>Week 2</b>	<p>2. States of Matter: Mass, Density and Diffusion                  Unit 2: Diffusion, Evaporation, Boiling, Condensation</p> <p><b>Unit 3: Motion</b></p> <ul style="list-style-type: none"> <li>1. Speed and Velocity</li> <li>2. Acceleration</li> <li>3. Graphical Representation of Motion</li> <li>4. Newton's Laws of Motion</li> <li>5. Force and Pressure</li> </ul> <p><b>Module 4: The Earth in Space</b>                  Unit 1: Earth and its Motion</p>	<p>2. States of Matter: Mass, Density and Diffusion                  Unit 2: Diffusion, Evaporation, Boiling, Condensation</p> <p><b>Unit 3: Motion</b></p> <ul style="list-style-type: none"> <li>1. Speed and Velocity</li> <li>2. Acceleration</li> <li>3. Graphical Representation of Motion</li> <li>4. Newton's Laws of Motion</li> <li>5. Force and Pressure</li> </ul> <p><b>Module 4: The Earth in Space</b>                  Unit 1: Earth and its Motion</p>	<b>10</b>



	<p><b>For the Board of Directors</b></p> <ol style="list-style-type: none"> <li>Early Investment (1990-1995)</li> <li>Development (1995-2000)</li> </ol>	<p><b>For the Board of Directors</b></p> <ol style="list-style-type: none"> <li>Early Investment (1990-1995)</li> <li>Development (1995-2000)</li> </ol>	
<p><b>Report</b></p>	<p><b>Section 10: Major Accomplishments</b></p> <ol style="list-style-type: none"> <li>The major accomplishments and their contribution</li> <li>Major accomplishments: Best of Best of Performance, the company's ability to be a good customer of the environment</li> <li>Other accomplishments: Improved process for environmental risk of Environmental and Climate Change</li> <li>Special issues: Risk of Environmental and Environmental Risk</li> <li>Other issues: Environmental and Environmental Risk</li> </ol> <p><b>Section 11: Appendixes</b></p> <ol style="list-style-type: none"> <li>Appendix A</li> <li>Appendix B</li> </ol> <p><b>The major findings</b></p> <p><b>The major findings and comments</b></p> <p><b>Environmental Performance</b></p> <p><b>Environmental and Social Issues: The findings of</b></p> <ol style="list-style-type: none"> <li>Environmental and Social Issues: The findings of</li> <li>Environmental and Social Issues: The findings of</li> </ol>	<p><b>Section 12: Major Accomplishments</b></p> <ol style="list-style-type: none"> <li>The major accomplishments and their contribution</li> <li>Major accomplishments: Best of Best of Performance, the company's ability to be a good customer of the environment</li> <li>Other accomplishments: Improved process for environmental risk of Environmental and Climate Change</li> <li>Special issues: Risk of Environmental and Environmental Risk</li> <li>Other issues: Environmental and Environmental Risk</li> </ol> <p><b>Section 13: Appendixes</b></p> <ol style="list-style-type: none"> <li>Appendix A</li> <li>Appendix B</li> </ol> <p><b>Major findings and comments</b></p> <p><b>The major findings</b></p> <p><b>The major findings and comments</b></p> <p><b>Environmental Performance</b></p> <p><b>Environmental and Social Issues: The findings of</b></p>	<p><b>Signature of Board Member</b></p>
<p><b>Signature</b></p>	<p><b>Environmental and Social Issues: The findings of</b></p> <ol style="list-style-type: none"> <li>Environmental and Social Issues: The findings of</li> <li>Environmental and Social Issues: The findings of</li> </ol> <p><b>Appendixes</b></p> <ol style="list-style-type: none"> <li>Appendix A</li> <li>Appendix B</li> </ol>	<p><b>Environmental and Social Issues: The findings of</b></p> <ol style="list-style-type: none"> <li>Environmental and Social Issues: The findings of</li> <li>Environmental and Social Issues: The findings of</li> </ol> <p><b>Appendixes</b></p> <ol style="list-style-type: none"> <li>Appendix A</li> <li>Appendix B</li> </ol> <p><b>Signature of Board Member</b></p>	<p><b>Signature of Board Member</b></p>





**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF MASS COMMUNICATION**  
**BA (HONS) IN MASS COMMUNICATION**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>NAME:</b>	
<b>Name of Teacher</b>		<b>Ms. Susanna George</b>	
<b>Class:</b> BA(HONS) - Semester - II	<b>Subject:</b> Radio Program Production I	<b>Subject Code:</b> MMCC200101	
<b>No. of lectures allotted per week:</b> 02	<b>No. of lectures covered per Semester:</b> 04	<b>No. of lectures allotted per Semester:</b> 08	
<b>Months of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	1. Introduction Introduction to Radio: History of Radio Growth & Development, Radio as a Mass Medium: uses & Characteristics. Writing for the Radio: What are you talking of? What do you want to say? Structure & Supporting. The Script	1. Introduction Introduction to Radio, History of Radio Growth & Development. Radio as a Mass Medium: uses & Characteristics. Writing for the Radio: What are you talking of? What do you want to say? Structure & Supporting. The Script	4 (From 4 lectures from 10.6.2023)
<b>July</b>	2. The Work of Producer Show, The Anchor, Revenue Planning, Preparation of Material. The Radio Studio. Post-Production. Production, Editing, Administration & Manager	2. The Work of Producer Show, The Anchor, Revenue Planning, Preparation of Material. The Radio Studio. Post-Production. Production, Editing, Administration & Manager	4 (From 4 lectures from 11)
	3. The Radio Studio Radio Levels The radio desk, Music Control Panel (console or Board) Digital Mixer Radio Settings	3. The Radio Studio Radio Levels The radio desk, Music Control Panel (console or Board) Digital Mixer Radio Settings	



	Original Comments:	Revised Comments:	
<b>Subject</b>	<p><b>A. News-Policy &amp; Practice</b>            New Values: Accuracy, Balance, &amp; Truth            The Newsroom Operation            The news conference &amp; press release            News reading and presentation: The news file, News Reading, Newsroom, Visual Storying, News &amp; Filmography</p>	<p><b>A. News-Policy &amp; Practice</b>            New Values: Accuracy, Balance, &amp; Truth            The Newsroom Operation            The news conference &amp; press release            News reading and presentation: The news file, News Reading, Newsroom, News Storying, News &amp; Filmography</p>	<p>Direct you both            attend classes            of course focus on            pp 77</p>
<b>Supervisor</b>	<p><b>B. Interviewing</b>            What do interviewees should know?            Preparation before the interview and the Post-Interview            Interview            David's Interview            Question Techniques: Multiple and Leading Questions</p>	<p><b>B. Interviewing</b>            What do interviewees should know?            Preparation before the interview and the Post-Interview            Interview            David's Interview            Question Techniques: Multiple and Leading Questions</p> <p><b>Essential Interview</b></p>	<p>12-12 facilities            attend            classes            of course focus            on pp 77 that is            correct            classes            follow</p>
<b>Signature of Coordinator:</b>		<b>Signature of Subject Teacher:</b>	



**LADAKH CHARITABLE TRUSTS**  
**UNIVERSITY & HIGHER COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. Y. RAMAKRISHNAN ROAD, ANANTNAG (2) JAMMU & KASHMIR**

**Tracking Plan and Implementation Report (2023-24)**

<b>Department</b>		<b>030001</b>	
<b>Name of Teacher</b>		<b>Mr. Chander Sheel</b>	
<b>Class (Semester)</b>	<b>Commerce (I)</b>	<b>Subject</b>	<b>Money Lender and Finance</b>
<b>No. of lessons allotted per week: 05</b>		<b>No. of lessons actually per Semester: 05</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lessons per week</b>
<b>September</b>	<p><b>UNIT I: Government and Money</b></p> <p>1. Core nature of the Government, Defining Private, public institutions of the Indian Government</p> <p>2. Functions of Government, Agency for Finance, Money Mkt.</p> <p>3. Central Government, Functions of the Govt., Independence of the Judiciary, Legal Jurisdiction</p> <p>4. Social responsibilities of the banker, Social Responsibility Theory</p> <p>5. Banking system in India, Regulatory, Theory of Money &amp; its functioning</p> <p>6. Social Media, Theory of Risk avers and Risk neutrality theory, social network</p>	<p><b>UNIT I: Government and Money</b></p> <p>1. Core nature of the Government, Defining Private, public institutions of the Indian Government</p> <p>2. Functions of Government, Agency for Finance, Money Mkt.</p> <p>3. Central Government, Functions of the Govt., Independence of the Judiciary, Legal Jurisdiction</p> <p><b>Further two sessions to get topics discussed</b></p>	<p>05</p> <p>05</p> <p>05</p> <p>05</p> <p>05</p> <p>05</p> <p>05</p>
	<p><b>UNIT II: Regulatory Bodies</b></p> <p>1. Money Lender of India</p> <p>2. Social Media, Government</p> <p>3. Insurance and Depository</p> <p>4. Finance and Investment</p> <p>5. RBI</p> <p>6. Indian Broadcasting Commission</p> <p>7. Broadcasting Content Complaints Council</p> <p>8. Broadcasting Content Regulation Council</p>		

<p><b>Number</b></p>	<p>4. Social responsibility of the media: Social Responsibility Theory: Emerging view or Social Responsibility Theory is same as no.</p> <p>1. Social Media: Threat of Fake news and Fake verification Social media domain</p> <p><b>MCQs &amp; A. Regulatory Bodies:</b></p> <ol style="list-style-type: none"> <li>Press Council of India</li> <li>Broad Strategy: Regulatory issues</li> <li>Structure and Organization</li> <li>Structure and Organization</li> </ol> <p>2. TRAI: Role of Telecom Regulatory Authority of India</p> <p>1. TRAI</p> <ol style="list-style-type: none"> <li>Basic Broadbanding: Functions</li> <li>Broadbanding Content Compliance Council</li> <li>Broadbanding: Structure, Research Council</li> <li>TRAI</li> </ol> <p>3. Advertising Standard Council of India</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>Structure: Complaint Council</li> </ol>	<p>4. Social responsibility of the media: Social Responsibility Theory: Emerging view or Social Responsibility Theory is same as no.</p> <p>1. Social Media: Threat of Fake news and Fake verification Social media domain</p> <p><b>MCQs &amp; A. Regulatory Bodies:</b></p> <ol style="list-style-type: none"> <li>Press Council of India</li> <li>Broad Strategy: Regulatory issues</li> <li>Structure and Organization</li> <li>Structure and Organization</li> </ol> <p>2. TRAI: Role of Telecom Regulatory Authority of India</p> <p>1. TRAI</p> <ol style="list-style-type: none"> <li>Basic Broadbanding: Functions</li> <li>Broadbanding Content Compliance Council</li> <li>Broadbanding: Structure, Research Council</li> <li>TRAI</li> </ol> <p>3. Advertising Standard Council of India</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>Structure: Complaint Council</li> </ol> <p><b>Parties are covered as per paper demand</b></p>	<p>10</p> <p>17 marks for paper 07 for</p> <p>10</p> <p>marks for</p> <p>08 marks for</p> <p>10</p> <p>marks for</p>
<p><b>Answer</b></p>	<p>1. TRAI</p> <ol style="list-style-type: none"> <li>Basic Broadbanding: Functions</li> <li>Broadbanding Content Compliance Council</li> <li>Broadbanding: Structure, Research Council</li> <li>TRAI</li> </ol> <p>2. Advertising Standard Council of India</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>Structure: Complaint Council</li> <li>TRAI</li> </ol> <p>3. Social Responsibility: Emerging</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>TRAI</li> </ol> <p><b>MCQs &amp; A. Regulatory Bodies:</b></p> <ol style="list-style-type: none"> <li>Press Council of India</li> <li>Broad Strategy: Regulatory issues</li> <li>Structure and Organization</li> <li>Structure and Organization</li> </ol>	<p>1. TRAI</p> <ol style="list-style-type: none"> <li>Basic Broadbanding: Functions</li> <li>Broadbanding Content Compliance Council</li> <li>Broadbanding: Structure, Research Council</li> <li>TRAI</li> </ol> <p>2. Advertising Standard Council of India</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>Structure: Complaint Council</li> <li>TRAI</li> </ol> <p>3. Social Responsibility: Emerging</p> <ol style="list-style-type: none"> <li>Structure</li> <li>Structure</li> <li>TRAI</li> </ol> <p><b>Parties are covered as per paper demand</b></p>	<p>10</p> <p>17 marks for paper 07 for</p> <p>10</p> <p>marks for</p> <p>08 marks for</p> <p>10</p> <p>marks for</p>



What is copyright, Intellectual Property Rights, Patents, Trade  
 Secret, Domain Name (use trade)

1. Definitions

Information, Civil, Criminal, Patents, Patent Law Statute

1. IT Act

1. Information Technology Act, 2008

a. Amendment 2008

ii. Section 64B

iii. Section 67

4. Case Studies

4. Copyright

1. Copyright of Text

2. Copyright of Performer

3. More acts

- Drugs and Magic Remedies (Obnoxious Advertisement) Act

1. Evidence and Transfer (Provision of evidence) Act

ARTICLE 12 (1) Media Law

1. Right to Privacy

1. Evidence

a. Right to Privacy & Fundamental Right

2. Media and Democracy

1. National Representation of Women's Act

a. 14 (1), 15, 153, 157

ii. Change in government with time

What is copyright, Intellectual Property Rights, Patents, Trade  
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iii. Section 67

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1. Copyright of Text

2. Copyright of Performer

**Patents are covered in get report shared**

ARTICLE 12 (1) Media Law

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14  
15  
153  
157

**1. Under Each Feature**

Under Each Feature and the Competency Area (200)

- a. 1984
- b. Official Source Act
- c. Government
- d. Case Studies

**1. 200**

- 1. Right to Information Act, 2000
- 2. Right to Privacy
- 3. Information and Commission

**UNIT 11: Media Ethics and Social Responsibility**

**1. 200 Ethics**

What is ethics, and why do we need it?

**1. Ethical Responsibilities of Journalists**

**1. Code of conduct for journalist**

- a. Conflict of interest
- b. Misrepresentation
- c. Trade secrets
- d. Privacy

**1. Journalist's ethical challenges of fighting terrorism**

- a. Challenges of bias and prejudice
- b. Ethical responsibility of journalism
- c. Journalist's ethical dilemmas and decisions
- d. Case studies
- e. Summary

Integrating of research, news, and media ethics, 2007

**1. Under Each Feature**

Under Each Feature and the Competency Area (200)

- a. 2004
- b. Official Source Act
- c. Government
- d. Case Studies

**1. 200**

- 1. Right to Information Act, 2000
- 2. Right to Privacy
- 3. Information and Commission

**UNIT 11: Media Ethics and Social Responsibility**

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- b. Ethical responsibility of journalism
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- d. Case studies
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Integrating of research, news, and media ethics, 2007

Respected Teacher / Media ethics teacher

Signature of Subject Teacher

Classmate  
Date

Signature of Candidate



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF CHEMISTRY**  
**PH.D. PROGRAM**

**Training Plan and Responsibilities Form (2011-12)**



Department	CHEM	
Name of Student	Mr. Chanyun Kim	
Class Number	Chemistry 210	Subject: High Media Research
No. of Semesters Allowed per week, 10	No. of Semesters Allowed per Semester: 40	No. of Semesters Allowed per Semester: 40

Month of Training	Topic Proposed	Topic Covered	No. of Semesters per topic
Semester 1	<p>Month 1: Research in Media: Introduction to High Media Research</p> <p>Abstracts, Scope of High Media Research and Role of Research in Media</p> <p>Topics involved in Research Process</p> <p>Qualitative and Quantitative Research</p> <p>Concepts of Research Process: Identifying Problems and Independent Variables, Identifying Hypotheses</p> <p>Month 2: Design Research Design</p> <p>Concepts, Formulation</p> <p>Research Design</p> <p>1. Experimental</p> <p>2. Descriptive and</p> <p>3. Correlational</p> <p>Research Design</p> <p>1. Experimental</p> <p>2. Descriptive and</p> <p>3. Correlational</p>	<p>Various publications within Research papers and books</p> <p>Month 1: Research in Media: Introduction to High Media Research</p> <p>Abstracts, Scope of High Media Research and Role of Research in Media</p> <p>Topics involved in Research Process</p> <p>Qualitative and Quantitative Research</p> <p>Concepts of Research Process: Identifying Problems and Independent Variables, Identifying Hypotheses</p> <p>Month 2: Design Research Design</p> <p>Concepts, Formulation</p> <p>Research Design</p> <p>1. Experimental</p> <p>2. Descriptive and</p> <p>3. Correlational</p> <p>Formulas are covered as per topic proposed</p>	<p>10 Semesters</p> <p>10 Semesters</p> <p>10 Semesters</p> <p>10 Semesters</p>
Semester 2	<p>Month 3: High Media Research: Identifying Problems and Independent Variables, Identifying Hypotheses</p> <p>Month 4: High Media Research: Identifying Problems and Independent Variables, Identifying Hypotheses</p>	<p>Month 3: High Media Research: Identifying Problems and Independent Variables, Identifying Hypotheses</p> <p>Month 4: High Media Research: Identifying Problems and Independent Variables, Identifying Hypotheses</p>	<p>10 Semesters</p> <p>10 Semesters</p>



	<ol style="list-style-type: none"> <li>1. Basic Laboratory</li> <li>2. Force Group</li> <li>3. Normal</li> <li>4. Shear stress</li> <li>5. Experimental error</li> <li>6. Secondary Data Collection Methods</li> <li>7. Laboratory Review</li> <li>8. Designing Geotechnical and Measurement Techniques</li> <li>9. Types and Sources of Geotechnical</li> <li>10. Precision Techniques</li> <li>11. Accuracy Measurement Issues</li> <li>12. Sampling Process</li> <li>13. Data Tabulation and Report Report Format</li> </ol>	<ol style="list-style-type: none"> <li>1. Light Laboratory</li> <li>2. Force Group</li> <li>3. Shear</li> <li>4. Shear stress</li> <li>5. Experimental error</li> </ol> <p>Exercises are covered as per topics proposed</p>	
<p>Medium</p>	<ol style="list-style-type: none"> <li>1. Secondary Data Collection Methods</li> <li>2. Laboratory Review</li> <li>3. Designing Geotechnical and Measurement Techniques</li> <li>4. Types and Sources of Geotechnical</li> <li>5. Precision Techniques</li> <li>6. Accuracy Measurement Issues</li> <li>7. Sampling Process</li> <li>8. Data Tabulation and Report Report Format</li> </ol> <p>MODULE IV: Analysis of Geotechnical Systems</p> <ol style="list-style-type: none"> <li>1. Settlement and Time</li> <li>2. Geotechnical and Measurement Agreement</li> <li>3. Design of Geotechnical Systems</li> <li>4. Designing Methods of a Geotechnical System</li> <li>5. Evaluation of Geotechnical Systems</li> </ol>	<ol style="list-style-type: none"> <li>2. Secondary Data Collection Methods</li> <li>3. Laboratory Review</li> <li>4. Designing Geotechnical and Measurement Techniques</li> <li>5. Types and Sources of Geotechnical</li> <li>6. Precision Techniques</li> <li>7. Accuracy Measurement Issues</li> <li>8. Sampling Process</li> <li>9. Data Tabulation and Report Report Format</li> </ol> <p>Exercises are covered as per topics proposed</p>	<p>9</p> <p>60% has achieved to get 70% and above marks. 40% - 50% and 50% - 60% and 60% - 70% and 70% - 80% and 80% - 90% and 90% - 100% and</p>
<p>Difficult</p>	<ol style="list-style-type: none"> <li>1. Settlement and Time</li> <li>2. Geotechnical and Measurement Agreement</li> <li>3. Design of Geotechnical Systems</li> <li>4. Designing Methods of a Geotechnical System</li> <li>5. Evaluation of Geotechnical Systems</li> </ol> <p>MODULE V: Application of Research Applications of Research in Geotechnical</p> <ol style="list-style-type: none"> <li>1. Settlement and Geotechnical Systems</li> <li>2. GSP</li> <li>3. GSP</li> <li>4. Geotechnical Systems</li> <li>5. GSP</li> <li>6. Geotechnical Systems</li> </ol>	<ol style="list-style-type: none"> <li>1. Settlement and Time</li> <li>2. Geotechnical and Measurement Agreement</li> <li>3. Design of Geotechnical Systems</li> <li>4. Designing Methods of a Geotechnical System</li> <li>5. Evaluation of Geotechnical Systems</li> </ol> <p>MODULE VI: Application of Research Applications of Research in Geotechnical</p> <ol style="list-style-type: none"> <li>1. Settlement and Geotechnical Systems</li> <li>2. GSP</li> <li>3. GSP</li> <li>4. Geotechnical Systems</li> </ol> <p>Exercises are covered as per topics proposed</p>	<p>10</p> <p>60% has achieved to get 70% and above marks. 40% - 50% and 50% - 60% and 60% - 70% and 70% - 80% and 80% - 90% and 90% - 100% and</p>



<p><b>Mark:</b></p>	<p><b>1. Essay Plan</b>  <b>2. Addressing Common Research</b></p> <p><b>QUESTION 1) The Question: The Treatment of the Black Male</b></p> <ol style="list-style-type: none"> <li>1. What is the question or topic?</li> <li>2. Why is the question important?</li> <li>3. What are the values or assumptions?</li> <li>4. Sources and Media</li> </ol>	<p><b>1. Essay Plan</b>  <b>2. Addressing Common Research</b></p> <p><b>QUESTION 1) The Question: The Treatment of the Black Male</b></p> <ol style="list-style-type: none"> <li>1. What is the question or topic?</li> <li>2. Why is the question important?</li> <li>3. What are the values or assumptions?</li> <li>4. Sources and Media</li> </ol> <p><b>Research Sources / Study writing process</b></p>	<p><b>100</b>  <b>Excluded</b>  <b>marked in blue</b></p>
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



**LEARNER CERTIFICATE TRUST**  
**UNITED JESUITS UNIVERSITY COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. V. RAJAGOPALAN ROAD, KANDURU (E), TIRUPATI - 517 002**

**Teaching Plan and Implementation Report (2023-24)**

Department		English	
Name of Teacher		Ms. Charvi Reddy	
Class: B.A.B.M. Semester: III		Subject: Film Communication - II	Subject Code: ENBBA2302-03
No. of lectures offered per week: 04		No. of lectures covered per Semester: 14	No. of lectures offered per Semester: 14
Week of teaching	Topic Proposed	Topic Covered	No. of lectures per week
November	<p><b>Module 1: Regional Cinema</b>                      Regional Film and Filmmakers: <b>Months 14 - November</b>; <b>Director: Chiranjeev</b>; <b>Movie: Chant</b>; <b>Movie/Serial: Tamil: Thirupathi Kambala</b>; <b>Movie: K. Balachandrar, K. Viswanath, India</b> <b>Geographical etc.</b></p> <p><b>Module 2: Film Cinema</b>                      2.1 <b>Regional Film Communication (Introduction)</b>                      2.2 <b>Film in Focus</b>                      2.3 <b>Evolution of cinema</b>                      2.4 <b>Geography of Film and Cinema</b></p>	<p><b>Module 1: Regional Cinema</b>                      Regional Film and Filmmakers: <b>Months 14 - November</b>; <b>Director: Chiranjeev</b>; <b>Movie: Chant</b>; <b>Movie/Serial: Tamil: Thirupathi Kambala</b>; <b>Movie: K. Balachandrar, K. Viswanath, India</b> <b>Geographical etc.</b></p> <p><b>Partials are covered as per topic proposed</b></p>	<p>14                      14 lectures                      topics                      completed                      per                      semester                      4 lectures                      per                      week                      through                      classroom                      and                      given                      in                      other                      medium</p>
	<p><b>Module 3: Film Cinema</b>                      3.1 <b>Regional Film Communication (Introduction)</b>                      3.2 <b>Film in Focus</b>                      3.3 <b>Evolution of cinema</b>                      3.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 4: Cinema</b>                      4.1 <b>Regional Film Communication (Introduction)</b>                      4.2 <b>Film in Focus</b>                      4.3 <b>Evolution of cinema</b>                      4.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 5: Cinema</b>                      5.1 <b>Regional Film Communication (Introduction)</b>                      5.2 <b>Film in Focus</b>                      5.3 <b>Evolution of cinema</b>                      5.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 6: Cinema</b>                      6.1 <b>Regional Film Communication (Introduction)</b>                      6.2 <b>Film in Focus</b>                      6.3 <b>Evolution of cinema</b>                      6.4 <b>Geography of Film and Cinema</b></p>	<p><b>Module 3: Film Cinema</b>                      3.1 <b>Regional Film Communication (Introduction)</b>                      3.2 <b>Film in Focus</b>                      3.3 <b>Evolution of cinema</b>                      3.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 4: Cinema</b>                      4.1 <b>Regional Film Communication (Introduction)</b>                      4.2 <b>Film in Focus</b>                      4.3 <b>Evolution of cinema</b>                      4.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 5: Cinema</b>                      5.1 <b>Regional Film Communication (Introduction)</b>                      5.2 <b>Film in Focus</b>                      5.3 <b>Evolution of cinema</b>                      5.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 6: Cinema</b>                      6.1 <b>Regional Film Communication (Introduction)</b>                      6.2 <b>Film in Focus</b>                      6.3 <b>Evolution of cinema</b>                      6.4 <b>Geography of Film and Cinema</b></p> <p><b>Partials are covered as per topic proposed</b></p>	<p>14                      14 lectures                      per                      week                      through                      classroom                      and                      given                      in                      other                      medium</p>
January	<p><b>Module 7: Cinema</b>                      7.1 <b>Regional Film Communication (Introduction)</b>                      7.2 <b>Film in Focus</b>                      7.3 <b>Evolution of cinema</b>                      7.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 8: Cinema</b>                      8.1 <b>Regional Film Communication (Introduction)</b>                      8.2 <b>Film in Focus</b>                      8.3 <b>Evolution of cinema</b>                      8.4 <b>Geography of Film and Cinema</b></p>	<p><b>Module 7: Cinema</b>                      7.1 <b>Regional Film Communication (Introduction)</b>                      7.2 <b>Film in Focus</b>                      7.3 <b>Evolution of cinema</b>                      7.4 <b>Geography of Film and Cinema</b></p> <p><b>Module 8: Cinema</b>                      8.1 <b>Regional Film Communication (Introduction)</b>                      8.2 <b>Film in Focus</b>                      8.3 <b>Evolution of cinema</b>                      8.4 <b>Geography of Film and Cinema</b></p> <p><b>Partials are covered as per topic proposed</b></p>	<p>14                      14 lectures                      per                      week                      through                      classroom                      and                      given                      in                      other                      medium</p>



	<p>Outline of This Meeting        Film Production in Film Systems        4.1 Aspects of Production Systems: Technical, Administrative and Creative        4.2 Stages of Film Making - I: Pre-Production        4.3 Stages of Film Making - II: Actual Production        4.4 Stages of Film Making - III: Post-Production        4.5 Film and Copyright        4.6 DVD Systems in Film Industry        Discussion        Exercises        Homework        Reading        Writing        Review</p>	<p>The system, based on DVD and other sources was discussed along with their production strategies          Module 4: Film Making        Film Production in Film Systems        4.1 Aspects of Production Systems: Technical, Administrative and Creative          Questions and answers as per notes prepared</p>	<p>present in the lecture</p>
<p>Reference</p>	<p>4.1 Stages of Film Making - I: Pre-Production        4.2 Stages of Film Making - II: Actual Production        4.3 Stages of Film Making - III: Post-Production        4.4 Film and Copyright        4.5 DVD Systems in Film Industry        Discussion        Exercises        Homework        Reading        Writing        Review        Module 4.2: Film Culture        1.1 Introduction to Film Systems: Film Culture and their Association with the Film Industry: DVD, DVD, DVD, DVD, DVD, DVD, DVD, DVD, etc.        1.2 Film Industry        What is a Film System?        Major Film Production in India and abroad        1.3 Film Awards        Names and Types of Film Awards        Major Film Awards in India and abroad</p>	<p>4.2 Stages of Film Making - I: Pre-Production        4.3 Stages of Film Making - II: Actual Production        4.4 Stages of Film Making - III: Post-Production        4.5 Film and Copyright        4.6 DVD Systems in Film Industry        Discussion        Exercises        Homework        Reading        Writing        Review        Module 4.2: Film Culture        1.1 Introduction to Film Systems: Film Culture and their Association with the Film Industry: DVD, DVD, DVD, DVD, DVD, DVD, DVD, DVD, etc.        1.2 Film Industry        What is a Film System?        Major Film Production in India and abroad        1.3 Film Awards        Names and Types of Film Awards        Major Film Awards in India and abroad        Essential features / should writing notes</p>	<p>very detailed (should write)</p>
<p>Mark</p>		<p>Signature of Incharge Teacher</p>  	
<p>Signature of Examinator</p>			

**UNION CHARITABLE TRUSTS**  
**THE U. L. B. THIRUVENKAY COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. S. RADHAKRISHNAN ROAD, THIRUVENKAY, MADURAI - 625 009**

**Marking Plan and Implementation Record (2023-24)**

<b>Department:</b>		English	
<b>Name of Teacher:</b>		Mr. Suresh Singh	
<b>Class:</b> B.A/B.B.A	<b>Section:</b> IV	<b>Subject:</b> Writing and Forming for Media	<b>Course Code:</b> BBA/BA/EN/2023/04
<b>No. of lessons allotted per week:</b> 03		<b>No. of lessons covered per Semester:</b> 18	
<b>No. of lessons allotted per topic:</b> 03		<b>No. of lessons covered per Semester:</b> 03	
Month of teaching	Topic Proposed	Topic Covered	No. of lessons per topic
November	<p><b>Free Media</b></p> <ol style="list-style-type: none"> <li>1. Writing for print media</li> <li>2. What makes news? Characteristics of news</li> <li>3. Six and four words of writing</li> <li>4. Style and elements of writing: cultural, business and review</li> <li>5. Writing for Newspaper and Magazine</li> </ol> <p><b>Writing a three paragraph letter for formal business correspondence</b></p> <ol style="list-style-type: none"> <li>6. Leads, six shifting and key sentence</li> <li>7. Writing notes and the notebook</li> <li>8. Public Relations and corporate writing: annual letter</li> <li>9. Writing for Advertisement</li> </ol> <p><b>Radio and Television</b></p> <ol style="list-style-type: none"> <li>1. Writing for Broadcast Media</li> <li>2. Radio and Television: Challenges, strengths and weaknesses</li> <li>3. Writing for Television and Radio program</li> </ol>	<p><b>Free Media</b></p> <ol style="list-style-type: none"> <li>1. Writing for print media</li> <li>2. What makes news? Characteristics of news</li> <li>3. Six and four words of writing</li> <li>4. Style and elements of writing: cultural, business and review</li> </ol> <p><b>Formulas not covered as per topic discussed.</b></p>	<p>03</p>



December

1. Writing for Newspapers and Magazines
2. Writing a News story/feature piece/Photo/feature captions
3. Leads, use of linking and story structure
4. Writing notes and the stylebook
5. Radio, Television and internet writing: news, feature
6. Writing for Advertisements

Radio and Television

1. Writing for Broadcast Media
2. Radio and Television: Challenges, strengths and weaknesses
3. Writing for Television and Radio programs
4. Script writing formats
5. Writing for interviews, live news and daily news
6. Radio producing / writing radio and live news Scriptwriting for Television commercials

1. Writing for Newspapers and Magazines
2. Writing a News story/feature piece/Photo/captions (optional)
3. Leads, use of linking and story structure
4. Writing notes and the stylebook
5. Radio, Television and internet writing: news, feature
6. Writing for Advertisements

Radio and Television

1. Writing for Broadcast Media
2. Radio and Television: Challenges, strengths and weaknesses
3. Writing for Television and Radio programs

Further not covered as per notes discussed.

10  
All students have to get 77 marks in January and then the results

January

1. Script writing formats
2. Writing for interviews, live news and daily news
3. Radio producing / writing radio and live news Scriptwriting for Television commercials

Digital Media

1. Digital Media: A course introduction
2. Differences between newspaper writing and writing for the Web: headline writing, short leads, subheads, direct copywriting, content
3. Development of web-specific style guides, convergence of text and video on digital
4. Emerging forms of personal publishing, including blogging and news blogging via publishing via LinkedIn
5. Writing web marketing news and live news in real time
6. Writing for Advertisements through Email and SMS
7. Writing blogs



1. Script writing formats
2. Writing for interviews, live news and daily news
3. Radio producing / writing radio and live news Scriptwriting for Television commercials

Digital Media

1. Digital Media: A course introduction
2. Differences between newspaper writing and writing for the Web: headline writing, short leads, subheads, live and broadcast news
3. How to produce well-written copy for Web: content for the web, digital space and digitally distributed content
4. Development of web-specific style guides, convergence of text and video on digital
5. Emerging forms of personal publishing, including blogging and news blogging via publishing via LinkedIn
6. Writing web marketing news and live news in real time
7. Writing for Advertisements through Email and SMS
8. Writing blogs

10  
All students have to get 77 marks in January. Then the results and August the



<p><b>February</b></p>	<p><b>4. Writing</b>  <b>Evaluation of Content</b>          1. Checking spelling and grammar. Check appropriateness of use for audience (form, content, tone) Make use of graphics and illustrations for construction and information flow in paragraphs.          2. Revising text          3. Adjoining slides with opening requirements in any necessary sequence or linkage          4. Checking Advertising agency reports checking health/wellness specific terms, content and necessary content and flow in each slide          5. Check editing - editing requirements, content, format, clarity, style, consistency, correct health/wellness message design</p>	<p><b>4. Writing</b>  <b>Evaluation of Content</b>          1. Checking spelling and grammar. Check appropriateness of use for audience (form, content, tone) Make use of graphics and illustrations for construction and information flow in paragraphs.          2. Revising text          3. Adjoining slides with opening requirements in any necessary sequence or linkage          4. Checking Advertising agency reports, checking health/wellness specific terms, content and necessary content and flow in each slide          5. Check editing - editing requirements, content, format, clarity, style, consistency, correct health/wellness message design</p>	<p>2-3          minutes          20 minutes          15-20 minutes          10-15 minutes</p>
<p><b>March</b></p>		<p><b>Essential terms:</b> Health/wellness features</p>	<p>1          10 minutes          10 minutes</p>
<p>Signature of Chairperson: </p>		<p>Signature of Subject Teacher: </p>	




**LAKSHI CHARITABLE TRUSTS**  
**SMITH LILA & DEVI COLLEGE IN ARTS, SCIENCE & COMMERCE**  
**DR. S. RADHAKRISHNAN MARG, ANANDI (E), BOMBAY - 400 008**

**Teaching Plan and Implementation Record (2015-16)**

<b>Department:</b>		<b>NAME:</b>	
<b>Name of Teacher:</b>		<b>Dr. Ananda Singh</b>	
<b>Class:</b> BA/BB	<b>Section:</b> II	<b>Subject:</b> Radio Program Production II	<b>Subject Code:</b> BA/BB/PP/202-4013
<b>No. of lectures allotted per week/1st</b>		<b>No. of lectures covered per semester:</b> 03	<b>No. of lectures allotted per semester:</b> 05
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>November</b>	<ol style="list-style-type: none"> <li>1. The Document</li> <li>1. Format</li> <li>2. Selection of Participants</li> </ol>	<ol style="list-style-type: none"> <li>1. The Document</li> <li>1. Format</li> <li>2. Selection of Participants</li> </ol>	03 <small>(Difference between allotted and covered is 02/0021)</small>
<b>December</b>	<ol style="list-style-type: none"> <li>1. Preparation</li> <li>4. Speaker Content &amp; Technical Content</li> <li>1. Editing the Programme</li> </ol> <ol style="list-style-type: none"> <li>1. Commentary</li> <li>1. Preparation made with the Host Studio</li> <li>2. Difference spots</li> <li>3. Communicating Mood &amp; Coordinating the program</li> </ol>	<ol style="list-style-type: none"> <li>1. Preparation</li> <li>4. Speaker Content &amp; Technical Content</li> <li>1. Editing the Programme</li> </ol> <ol style="list-style-type: none"> <li>1. Commentary</li> <li>1. Preparation made with the Host Studio</li> <li>2. Difference spots</li> <li>3. Communicating Mood &amp; Coordinating the program</li> </ol> Particular not covered as per proposed topic	10 <small>(05 lectures were not per TT due to small variation)</small>
<b>January</b>	<ol style="list-style-type: none"> <li>4. Content &amp; Style</li> <li>3. News, Report &amp; Sports action</li> </ol> <ol style="list-style-type: none"> <li>1. Using the Internet and Social Media</li> </ol>	<ol style="list-style-type: none"> <li>4. Content &amp; Style</li> <li>3. News, Report &amp; Sports action</li> </ol> <ol style="list-style-type: none"> <li>1. Using the Internet and Social Media</li> </ol>	05 <small>7 lectures were not per TT due to small variation</small>



	<p>1. An action program</p> <p>2. General rules</p> <p>3. Media problems</p> <p>4. General Remarks</p> <p>5. Making the best use of Social Media</p> <p>6. Plans on</p> <p>1. Technical facilities, Programmes identification</p> <p>2. The open line &amp; choosing the calls</p> <p>3. The Role of The Host and The Host-Host</p>	<p>1. An action program</p> <p>2. General rules</p> <p>3. Media problems</p> <p>4. General Remarks</p> <p>5. Making the best use of Social Media</p> <p>6. Plans on</p> <p>1. Technical facilities, Programmes identification</p> <p>2. The open line &amp; choosing the calls</p> <p>3. The Role of The Host and The Host-Host</p> <p>Particular not covered as per script prepared</p>	<p>100% Yearly 100%</p>
January	<p>4. Plans on</p> <p>1. Technical facilities, Programmes identification</p> <p>2. The open line &amp; choosing the calls</p> <p>3. The Role of The Host and The Host-Host</p> <p>4. Reference Material: Use of Print</p> <p>5. Linking Programmes together: general connecting the Programme to Content</p> <p>5. Making Comments</p> <p>1. Copy Policy</p> <p>2. The Target Audience</p>	<p>4. Plans on</p> <p>1. Technical facilities, Programmes identification</p> <p>2. The open line &amp; choosing the calls</p> <p>3. The Role of The Host and The Host-Host</p> <p>4. Reference Material: Use of Print</p> <p>5. Linking Programmes together: general connecting the Programme to Content</p> <p>Particular not covered as per script prepared</p>	<p>11 100% Yearly 100% Yearly 100% Yearly 100% Yearly 100% Yearly</p>
February	<p>1. Making Comments</p> <p>1. Copy Policy</p> <p>2. The Target Audience</p> <p>3. The Production Services (general)</p> <p>4. Young &amp; Treatment</p> <p>5. Music and effects</p>	<p>1. Making Comments</p> <p>1. Copy Policy</p> <p>2. The Target Audience</p> <p>3. The Production Services (general)</p> <p>4. Young &amp; Treatment</p> <p>5. Music and effects</p>	<p>110 100% Yearly 100% Yearly 100% Yearly 100% Yearly</p>
March		<p>Beneficial services/ media selling services</p>	<p>1 100% Yearly 100%</p>
<p>Signature of Coordinator: </p>		<p>Signature of Subject Teacher: </p>	





	<p>1. Using text objects and paragraph text, Formatting Text, Embedding Objects into text, Wrapping Text around Objects, and Linking Text to Objects</p> <p>2. Creating Simple Images: Text based image replacement, Image based image replacement, Creating new symbols, Fill colors, Custom colors, Weight, and space</p> <p>3. Applying effects: Power of Words, Emphasis and custom Effects, Outlines, Line effects, Transparency, Creating Depth Effects and Drop Caps</p>	<p>1. Using text objects and paragraph text, Formatting Text, Embedding Objects into text, Wrapping Text around Objects, and Linking Text to Objects</p> <p>2. Creating Simple Images: Text based image replacement, Image based image replacement, Creating new symbols, Fill colors, Custom colors, Weight, and space</p> <p><b>Portion not covered in per paper proposal</b></p>	
<p><b>Lesson 2</b></p>	<p>4. Applying effects: Power of Words, Emphasis and custom Effects, Outlines, Line effects, Transparency, Creating Depth Effects and Power Clips</p> <p>5. Exporting to Microsoft Word, Types of export, Exporting the entire self name</p> <p><b>Challenges: Layout Software</b></p> <p>1. Introduction to Adobe In Design Let the name, Let the name, Future Benefits of using InDesign, Application of In Design</p> <p>2. Text Entry in InDesign Format of text, Character and Paragraph Box, Purpose of text selection, Having text in different design formats, Text alignment with embedded images</p> <p>3. Using tables in different types of publications such as InDesign, Magazine or InDesign, Paragraph style Manager in InDesign, Paragraph style panel, Text wrap panel</p> <p>4. Custom correction in InDesign Embedding images in proper format, Color correction in the image, Adjusting according to the color cast of the publication</p> <p>5. Exporting files: Types of files, Exporting for different publications: computer, newspaper, magazine, etc.</p> <p><b>4 Projects for students: Advanced application</b></p> <p>1. Introduction to using Editing operations, Using editing examples, Editing for different formats (Illustrator etc.)</p> <p>2. Exploring Features For this project help in editing Understanding the toolbar, Exporting files, Exporting to an files and web pages, Study of editing (ref: professional documents)</p>	<p>4. Applying effects: Power of Words, Emphasis and custom Effects, Outlines, Line effects, Transparency, Creating Depth Effects and Power Clips</p> <p>5. Exporting to Microsoft Word, Types of export, Exporting for other self name</p> <p><b>Challenges: Layout Software</b></p> <p>1. Introduction to Adobe InDesign Let the name, Let the name, Future Benefits of using In Design, Application of In Design</p> <p>2. Text Entry in InDesign Format of text, Character and Paragraph Box Purpose of text selection, Having text in different design formats, Text alignment with embedded images</p> <p>3. Using tables in different types of publications such as InDesign, Magazine or InDesign, Paragraph style Manager in InDesign, Paragraph style panel, Text wrap panel</p> <p>4. Custom correction in InDesign Embedding images in proper format, Color correction in the image, Adjusting according to the color cast of the publication</p> <p>5. Exporting files: Types of files, Exporting for different publications: computer, newspaper, magazine, etc.</p> <p><b>4 Projects for students: Advanced application</b></p> <p>1. Introduction to using Editing operations, Using editing examples, Editing for different formats (Illustrator etc.)</p> <p>2. Exploring Features For this project help in editing Understanding the toolbar, Exporting files, Exporting to an files and web pages, Study of editing (ref: professional documents)</p>	<p>18 19 20 21</p>



	<p>video and audio layers. Basics of editing (cut/paste/delete windows.)</p> <p>3. Right application of various file formats (Understanding different file formats -AVI,MP4G,MOV,VIDIA, etc.) Exporting raw footage for edit, Performing color checks while editing Using different transitions.</p> <p>4. Using color grading. What is color grading. Examples of color grading, Using filter and presets in color mixing, Applying presets on layers for editing</p> <p>3. Exporting and rendering Exporting in different formats, Choosing the right format for exporting, Managing quality while exporting, Rendering and monitoring file format, Improving quality and time to render techniques.</p>	<p>1. Right application of various file formats (Understanding different file formats -AVI,MP4G,MOV,VIDIA, etc.) Importing raw footage for edit, Performing color checks while editing Using different transitions.</p> <p>4. Using color grading. What is color grading. Examples of color grading, Using filter and presets in color mixing, Applying presets on layers for editing</p> <p>1. Exporting and rendering Exporting in different formats, Choosing the right format for exporting, Managing quality while exporting, Rendering and monitoring file format, Improving quality and time to render techniques.</p>	
February	<p>1 Adobe Dreamweaver: Web designing software.</p> <p>1. Introduction to Dreamweaver: Webpage overview Document modes, Document structure, Page groups, Filter pane, Property inspectors, Tag selector (Editing website in Dreamweaver)</p> <p>2. Working with DW Creating Dreamweaver template Page layout in DW CSS layout: advantages and disadvantages Creating HTML pages, Insert content and form Creating Forms in DW</p> <p>3. Linking pages Using DW to accomplish basic web page development, Page properties Table, Background image, Images, Text color, Links</p> <p>4. Using Tables cell padding, cell spacing, Border Table border, Colspan (C) in the cell, Rowspan (R) in the cell, Changing text, Making image into clickable link</p> <p>5. Types in DW Changing Text properties: size, style, color Text to hyperlink</p>	<p>1 Adobe Dreamweaver: Web designing software.</p> <p>1. Introduction to Dreamweaver: Webpage overview Document modes, Document structure, Page groups, Filter pane, Property inspectors, Tag selector (Editing website in Dreamweaver)</p> <p>2. Working with DW Creating Dreamweaver template Page layout in DW CSS layout: advantages and disadvantages Creating HTML pages, Insert content and form Creating Forms in DW</p> <p>3. Linking pages Using DW to accomplish basic web page development: Page properties Table, Background image, Images, Text color, Links</p> <p>4. Using Tables cell padding, cell spacing, Border Table border, Colspan (C) in the cell, Rowspan (R) in the cell, Changing text, Making image into clickable link</p> <p>5. Types in DW Changing Text properties: size, style, color Text to hyperlink</p>	<p>11/3          Evaluate          internal          content          4 to have          less to get          17 have          pattern out</p>
March		<p>Essential lectures / Module delivery lecture</p>	<p>1          Evaluate          internal          content</p>

Signature of Coordinator:

Signature of Lecturer/Teacher:



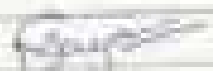

**LAXMI CHARITABLE TRUST'S**  
**WHEELER & WHEATON COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. S. RADHAKRISHNAN ROAD, ANANTHURU, MYSURU - 577301**

**Tracking Plan and Implementation Record (2023-24)**

<b>Department</b>		B.A.B.B.A.	
<b>Name of Teacher</b>		Ms. Chitra Reddy	
<b>Course Name</b>	<b>Semester</b>	<b>Subject</b>	<b>Subject Code</b>
B.A.B.B.A.	3	Social Media Marketing	BAABBA1003
<b>No. of lectures allotted per week: 14</b>		<b>No. of lectures covered per Semester: 45</b>	<b>No. of lectures allotted per Semester: 45</b>
<b>Month of tracking</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
None	<p><b>Module 1 - Digital Era</b></p> <p>1. Introduction to E-Marketing                      What is E-marketing? The changing marketing landscape, The internet and business</p> <p>2. E-Marketing</p> <p>3. Marketing concept and applications, Communication media, The Information sources (B2B, B2C, C2C and C2B)</p> <p>4. marketing and Online advertising, E-marketing and Consumer engagement, E-marketing and Consumer engagement.</p> <p>5. marketing and Sales and Trade promotion</p> <p>6. Types of Digital Marketing</p> <p>Types of E-mail marketing, Types of Internet marketing and Types of Mobile marketing</p> <p>8. Consumer T</p> <p>Engagement and influence: Implications of Digital change                      Changing consumer engagement in India</p> <p><b>Module 2 - Social Media Marketing</b></p> <p>1. Introduction to Social Media Marketing</p>	<p><b>Module 2 - Digital Era</b></p> <p>1. Introduction to E-Marketing                      What is E-marketing? The changing marketing landscape, The internet and business.</p> <p>2. E-Marketing</p> <p>3. Marketing concept and applications, Communication media, The Information sources (B2B, B2C, C2C and C2B) E-marketing and Online advertising, E-marketing and Consumer engagement, E-marketing and Consumer engagement.</p> <p>5. marketing and Sales and Trade promotion</p> <p>7. Types of Digital Marketing</p> <p>Types of E-mail marketing, Types of Internet marketing and Types of Mobile marketing</p> <p>8. Consumer T</p> <p>Engagement and influence: Implications of Digital change                      Emerging consumer engagement in India</p> <p><b>Particulars are covered as per proposed topic.</b></p>	<p>4</p> <p>From 4 introduced from 01.01.2023 till to get 03 as follows given in other subjects</p>





	<p>How to build business for your business through a range of new services. Operates across skills by achieving business for value. Personalized advertisement</p> <p><b>Module 10: Social Media Marketing Plan and Campaign Management</b></p> <p><b>1. Social Media Marketing Plan</b>          What is the "3M" plan? Social Media Marketing with 3M and Measure - 3 steps. Setting Social Media Marketing goals and objectives (Format, Frequency, Influence, Impact and Activity)</p>	<p>How to build business for your business through a range of new services. Operates across skills by achieving business for value. Personalized advertisement</p> <p><b>Module 11: Social Media Marketing Plan and Campaign Management</b></p> <p><b>1. Social Media Marketing Plan</b>          What is the "3M" plan? Social Media Marketing with 3M and Measure - 3 steps. Setting Social Media Marketing goals and objectives (Format, Frequency, Influence, Impact and Activity)</p>	
<p><b>September</b></p>	<p><b>Topic 1: Strategy development, Content Management, content distribution in marketing framework. Evaluation of social marketing metrics</b></p> <p><b>2. Campaign Marketing</b>          What is campaign management? Success. How to use campaign management for Facebook, Twitter, LinkedIn, Email, Display, Google+ (Search, News, or a Channel, Ad or Campaign, Key Steps for Facebook Campaign management)</p> <p><b>Module 12: Other content</b></p> <p>1. Other          Goals of other, a range of experience for Social Media Marketing</p> <p>2. Other          A range of Social Media Marketing</p>	<p><b>Topic 1: Strategy development, Content Management, content distribution in marketing framework. Evaluation of social marketing metrics</b></p> <p><b>2. Campaign Marketing</b>          What is campaign management? Success. How to use campaign management for Facebook, Twitter, LinkedIn, Email, Display, Google+ (Search, News, or a Channel, Ad or Campaign, Key Steps for Facebook Campaign management)</p> <p><b>Module 13: Other content</b></p> <p>1. Other          Goals of other, a range of experience for Social Media Marketing</p> <p>2. Other          A range of Social Media Marketing</p> <p><b>Module 14: Other content</b></p>	<p>11/11/11</p>
<p>Signature of Teacher: </p>	<p>Signature of Subject Teacher: </p>		



**JAYDEVI UNIVERSITY TRUST'S**  
**WILSON COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. C. RAJESWARAN MURUGU APPARILLU STREET - CHENNAI**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>CLASS</b>	
<b>Name of Teacher</b>		<b>No. of Semesters</b>	
<b>Class: B.A/BBA</b>	<b>Semester: I</b>	<b>Subject: Advertising and Marketing Research</b>	<b>Subject Code: 200001000000</b>
<b>No. of Semesters allotted per week: 04</b>		<b>No. of Semesters Covered per Semester: 04</b>	<b>No. of Semesters Allotted per Semester: 04</b>
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Semesters per topic</b>
<b>June</b>	<b>Module I Fundamentals of Research</b> 1. What is Research: Review 2. Statement of the problem 3. Aims and objectives of study 4. Research Research questions	<b>Module I Fundamentals of Research</b> 1. What is Research: Review 2. Statement of the problem 3. Aims and objectives of study 4. Research Research questions	2 (One 01 semester of June 1 to 2023) 04 Semesters covered per 11. 04 Semesters covered after subject and subject related
	<b>Module II Research Design</b> 1. Meaning, Definition, Need, and Importance 2. Types of Research Design 3. Sampling - Quantitative, Qualitative, and Mixed	<b>Module II Research Design</b> 1. Meaning, Definition, Need, and Importance 2. Types of Research Design 3. Sampling - Quantitative, Qualitative, and Mixed	
	<b>Module III Primary Data Collection</b> 1. Survey questionnaire 2. Designing the questionnaire using questions 3. Techniques for Quantitative research 4. Designing the Questionnaire using articles 5. Interviewing scale for Quantitative using articles	<b>Module III Primary Data Collection</b> 1. Survey questionnaire 2. Designing the questionnaire using questions 3. Techniques for Quantitative research 4. Designing the Questionnaire using articles 5. Interviewing scale for Quantitative using articles	
	<b>Module IV Sampling</b> 1. Meaning of Sample and Sampling 2. Process of Sampling 3. Methods of Sampling: Non-probability Sampling 4. Probability Sampling, Question, 2023, 2023	<b>Module IV Sampling</b> 1. Meaning of Sample and Sampling 2. Process of Sampling 3. Methods of Sampling: Non-probability Sampling 4. Probability Sampling, Question, 2023, 2023	



<p>MS</p>	<p><b>Module III: Sampling</b>  1. Meaning of Sample and Sampling.  2. Types of Sampling  3. Methods of Sampling: Non-probability Sampling: Convenience, Judgment, Quota, Snow Ball.  Probability Sampling: Simple Random, Systematic, Stratified, Cluster, Multi-stage.</p> <p><b>Module IV: Preparing data sheet and data processing</b>  Preparation of Questionnaire or event format and tabulating the data as per the requirement of the Statistical software such as SPSS and its manualization.</p> <p><b>Module V: Data Analysis</b>  Data collected are to be processed and analyzed. Students will learn to choose the suitable test first on the basis of the distribution.  Data could be processed using various procedures, for example, computerized. Data processed should be accompanied with the description of the procedure and interpretation among the class groups with the appropriate explanation in the study or the use of public the summary of interpretation should provide services in the research domain.</p> <p><b>Module VI: Methods of Data Analysis</b>  The interpretation based on Descriptive statistics should include Mean, Mode, Median, Range, Variance, Standard Deviation, Kurtosis, and Skewness.  Any of the following multivariate analyses may be used such as Regression, Correlation, Two factor analysis, and Experimental design.</p>	<p><b>Module III: Sampling</b>  1. Meaning of Sample and Sampling  2. Types of Sampling  3. Methods of Sampling: Non-probability Sampling: Convenience, Judgment, Quota, Snow Ball  Probability Sampling: Simple Random, Systematic, Stratified, Cluster, Multi-stage.</p> <p><b>Module IV: Preparing data sheet and data processing</b>  Preparation of Questionnaire or event format and tabulating the data as per the requirement of the Statistical software such as SPSS and its manualized test.</p> <p><b>Module V: Data Analysis</b>  Data collected are to be processed and analyzed. Students will learn to choose the suitable test first on the basis of the distribution.  Data could be processed using various procedures, for example, computerized. Data processed should be accompanied with the description of the procedure and interpretation among the class groups with the appropriate explanation in the study or the use of study. The summary of interpretation should provide services in the research domain.</p> <p><b>Process not covered in per module prepared</b></p>	<p>01  02  03  04  05  06  07  08  09  10  11  12</p>
<p>BS</p>	<p><b>Module III: Methods of Data Analysis</b>  The interpretation based on Descriptive statistics should include Mean, Mode, Median, Range, Variance, Standard Deviation, Kurtosis, and Skewness.</p>	<p><b>Module V: Methods of Data Analysis</b>  The interpretation based on Descriptive statistics should include Mean, Mode, Median, Range, Variance, Standard Deviation, Kurtosis, and Skewness.</p>	<p>13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  100</p>

Any of the following activities would not be used in a program: **Coaching, Test-Retest studies, and Assessment review**

**Module 10: Research Writing**  
Focus of the Research Review  
The research review will focus on following components:

1. Title Page
2. Table of Contents
3. Introduction and Research Objectives
4. Literature Review
5. Methods Review
6. Results of the Studies
7. Summary of Hypotheses/Research Objectives
8. Research Methodology and Research Design
9. Data Analysis and Interpretation
10. Conclusions
11. References
12. Appendixes
13. Appendixes (continued)
14. Bibliography

**Module 11: Advertising Research**

1. Introduction to Advertising Research
2. Types Research: a. Concept testing, b. Brand testing
3. a. Brand testing
4. Types testing methods and methods: a. Focus Groups
5. b. Direct advertising, c. Direct Mail test
6. a. Research objectives test
7. a. Qualitative research, b. Focus groups
8. Advertising:
  - a. Brand Positioning, a. Consumer Test Test
  - b. Positioning
  - c. Brand comparison test
  - d. Brand awareness
  - e. Brand response test
  - f. Brand recall test

Any of the following activities would not be used in a program: **Coaching, Test-Retest studies, and Assessment review**




**Module 12: Research Writing**  
Focus of the Research Review  
The research review will focus on following components:

1. Title Page
2. Table of Contents
3. Introduction and Research Objectives
4. Literature Review
5. Methods Review
6. Results of the Studies
7. Summary of Hypotheses/Research Objectives
8. Research Methodology and Research Design
9. Data Analysis and Interpretation
10. Conclusions
11. References
12. Appendixes
13. Appendixes (continued)
14. Bibliography

**Module 13: Advertising Research**

1. Introduction to Advertising Research
2. Types Research: a. Concept testing, b. Brand testing
3. a. Brand testing
4. Types testing methods and methods: a. Focus Groups
5. b. Direct advertising, c. Direct Mail test
6. a. Research objectives test
7. a. Qualitative research, b. Focus groups
8. Advertising:
  - a. Brand Positioning, a. Consumer Test Test
  - b. Positioning
  - c. Brand comparison test
  - d. Brand awareness
  - e. Brand response test
  - f. Brand recall test



	<ol style="list-style-type: none"> <li>1. Area support visit</li> <li>2. Area visit end</li> <li>3. Social Learning Training</li> <li>4. Teacher visit</li> <li>5. Teacher visit</li> <li>6. Live classroom visit &amp; Cluster visit</li> <li>7. Challenges in providing Examples: The Hubs effect</li> </ol> <p>8. Reflection</p> <ol style="list-style-type: none"> <li>1. Social visit</li> <li>2. Recognition visit</li> <li>3. Teacher development visit</li> <li>4. School effect visit</li> <li>5. School support visit</li> <li>6. Support visit</li> </ol>	<ol style="list-style-type: none"> <li>1. Social Learning Training</li> <li>2. Teacher visit</li> <li>3. Teacher visit</li> <li>4. Live classroom visit &amp; Cluster visit</li> <li>5. Challenges in providing Examples: The Hubs effect</li> </ol> <p>6. Post-visit</p> <ol style="list-style-type: none"> <li>1. Social visit</li> <li>2. Recognition visit</li> <li>3. Teacher development visit</li> <li>4. School effect visit</li> <li>5. School support visit</li> <li>6. Support visit</li> </ol>	
September	<p>Methodological training visits</p> <ol style="list-style-type: none"> <li>1. Field visits cluster</li> <li>2. Live classroom visits</li> <li>3. Cluster visits</li> <li>4. School pilot visits</li> <li>5. School pilot visits</li> </ol> <p>Module 2: Making Research</p> <ol style="list-style-type: none"> <li>1. Introduction to Advertising Research 2</li> <li>2. New product research</li> <li>3. Branding Research</li> <li>4. Pricing research</li> <li>5. Packaging research</li> <li>6. Product testing</li> </ol>	<p>Methodological training visits</p> <ol style="list-style-type: none"> <li>1. Field visits cluster</li> <li>2. Live classroom visits</li> <li>3. Cluster visits</li> <li>4. School pilot visits</li> <li>5. School pilot visits</li> </ol> <p>Module 3: Marketing Research</p> <ol style="list-style-type: none"> <li>1. Introduction to Advertising Research 2</li> <li>2. New product research</li> <li>3. Branding Research</li> <li>4. Pricing research</li> <li>5. Packaging research</li> <li>6. Product testing</li> </ol> <p>Essential Learning Objectives: Advertising &amp; Research</p>	<p>100%</p> <p>100% of the total number of teachers who have taken up the 10 day to 14 day training (100% of the total number of teachers)</p>
Signature of Coordinator		<p>Signature of Subject Teacher</p> 	

**LAKSHI VEDIC LITERATURE TRUST'S**  
**INSTITUTE IN THE NEW CYCLONE IN ARTS, SCIENCE & COMMERCE**  
**DR. S. RAYAKRISHNAN MARG, ANANDI EL, MUMBAI - 401 001**

**Working Plan and Implementation Record (WPI-IR)**

<b>Department</b>		<b>NAME</b>	
<b>Name of Teacher</b>		<b>No. Sessions/Day</b>	
<b>Class: B.A/B.Sc</b>	<b>Section: Y</b>	<b>Subject: Copy Writing</b>	<b>Subject Code: BAFSC/BAHSC/20</b>
<b>No. of lectures allotted per week: 04</b>	<b>No. of lectures Covered per Semester: 04</b>	<b>No. of lectures Allotted per Semester: 04</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	<p><b>Module 1</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Copywriting</li> <li>2. Basics of copywriting</li> <li>3. Responsibility of Copywriter</li> <li>4. Creative Thinking</li> <li>5. How to measure a creative thinking activity?</li> <li>6. The idea incubation process</li> <li>7. What's the big deal? How to generate ideas and ideas that will impact market</li> <li>8. Creating an answer why consumers should believe your brand and act</li> <li>9. Idea Generation Techniques</li> <li>10. Idea generation Techniques</li> <li>11. Brainstorming, Triggered Idea-writing, Grouping exercises, Future projects, Scenario Observations, Brainwriting, Innovation, Imagination, Dreams, and Creative thinking</li> <li>12. Transparency</li> <li>13. Introduction</li> <li>14. Progress</li> <li>15. Module II- Writing for Advertising</li> <li>1. Brief</li> <li>2. Marketing Brief</li> <li>3. Creative Brief</li> </ol>	<p><b>Module 1</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Copywriting</li> <li>2. Basics of copywriting</li> <li>3. Responsibility of Copywriter</li> <li>4. Creative Thinking</li> <li>5. How to measure a creative thinking activity?</li> <li>6. The idea incubation process</li> <li>7. What's the big deal? How to generate ideas and ideas that will impact market</li> <li>8. Creating an answer why consumers should believe your brand and act</li> <li>9. Idea Generation Techniques</li> <li>10. Idea generation Techniques</li> <li>11. Brainstorming, Triggered Idea-writing, Grouping exercises, Future projects, Scenario Observations, Brainwriting, Innovation, Imagination, Dreams, and Creative thinking</li> <li>12. Transparency</li> <li>13. Introduction</li> <li>14. Progress</li> <li>15. Module II- Writing for Advertising</li> <li>1. Brief</li> </ol> <p>Further not covered as per topic proposed</p>	<p style="text-align: center;"><b>6</b> (Less 4 covered) from 11 &amp; 2011 022 lectures less as per TT as follows plan in other subject)</p>



- a. Marketing Brief
- b. Creative Brief
- c. Writing Persuasive Copy
- d. Story of Voice
- e. What's the Goal?
- f. Creativity and Advertising Goals
- g. How to make your Writing, work, talk and breathe
- h. Creating Breakthrough Writing
- i. How to Create the "Command Center" in Your
- j. Program's Mind
- k. How to Change Perceptions
- l. Environmentally Sensitive

#### Module 11 - Creating Advertising Campaigns

Copy writing style of various advertising campaigns of the last advertising agencies for their clients

Two current campaigns for each of the following agencies including TVC, Print, Outdoor, and Digital should be studied and analyzed in the classroom

- a. P&G
- b. Ogilvy
- c. Lowe's/Love
- d. NBC/Dea
- e. IBM/Media
- f. Publisher Worldwide

An issue from international media writing previous year campaigns (one or two years previous) should be analyzed and discussed in the classroom

Students to be taught the following when discussing the Campaigns

- a. Copywriting style
- b. Idea and concept
- c. How copy is used for different media
- d. Copy for Outdoor, Youth, women, senior citizens, executives, millennials, Baby Boomers, Gen X, Gen Y, Gen Z
- e. Advertising agency
- f. The use of Voice
- g. Storytelling

- a. Marketing Brief
- b. Creative Brief
- c. Writing Persuasive Copy
- d. Story of Voice
- e. What's the Goal?
- f. Creativity and Advertising Goals
- g. How to make your Writing, work, talk and breathe
- h. Creating Breakthrough Writing
- i. How to Create the "Command Center" in Your
- j. Program's Mind
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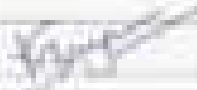


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- e. Advertising agency
- f. The use of Voice
- g. Storytelling



<p><b>August</b></p>	<p><b>Module IV: Media and Audiences</b></p> <p>1. Writing for various Media</p> <p>a. Print: Headlines, sub-headlines, captions, body copy, and slogans</p> <p>b. Television: Advertisement, Sponsorship, Testimonials, Editorials, Newsroom, weather and sports, Power of cinema, Issues of TVC</p> <p>c. Outdoor spaces</p> <p>d. Radio</p> <p>e. Digital copy for social media like Facebook, Instagram, etc</p> <p>f. Copy for web page</p> <p>2. Writing copy for various audiences</p> <p>a. Children</p> <p>b. Youth</p> <p>c. Women</p> <p>d. Parents / Grandparents</p> <p>e. Executives</p> <p>f. Baby Boomers, Gen X, Gen Y (Millennials), Gen Z</p> <p><b>Module V: Writing Copies, Appeals, Persuasive Styles and Organization</b></p> <p>1. How to write copy for</p> <p>a. Direct reader</p> <p>b. Classified</p> <p>c. Print Release</p>	<p><b>Module IV: Media and Audiences</b></p> <p>1. Writing for various Media</p> <p>a. Print: Headlines, sub-headlines, captions, body copy, and slogans</p> <p>b. Television: Advertisement, Sponsorship, Testimonials, Editorials, Newsroom, weather and sports, Power of cinema, Issues of TVC</p> <p>c. Outdoor spaces</p> <p>d. Radio</p> <p>e. Digital copy for social media like Facebook, Instagram, etc</p> <p>f. Copy for web page</p> <p>2. Writing copy for various audiences</p> <p>a. Children</p> <p>b. Youth</p> <p>c. Women</p> <p>d. Parents / Grandparents</p> <p>e. Executives</p> <p>f. Baby Boomers, Gen X, Gen Y (Millennials), Gen Z</p> <p><b>Module V: Writing Copies, Appeals, Persuasive Styles and Organization</b></p> <p>1. How to write copy for</p> <p>a. Direct reader</p> <p><b>Pastors not covered as per topic proposed</b></p>	<p>10-15 including internal content of lesson plan except IT</p>
<p><b>September</b></p>	<p>b. Classified</p> <p>c. Print Release</p> <p>d. QR</p> <p>e. Direct copy</p> <p>f. Advertisement</p> <p>g. Advertisement</p> <p>2. Various Types of Advertising and Persuasive styles</p> <p>a. Rational appeal</p> <p>b. Emotional appeal: Fear, Guilt, Sex appeal, Moral</p>	<p>b. Classified</p> <p>c. Print Release</p> <p>d. QR</p> <p>e. Direct copy</p> <p>f. Advertisement</p> <p>g. Advertisement</p> <p>2. Various Types of Advertising and Persuasive styles</p> <p>a. Rational appeal</p> <p>b. Emotional appeal: Fear, Guilt, Sex appeal, Moral</p>	<p>10-15 including internal content</p> 

<p>3. Explain advertising objectives techniques</p> <p>4. The technique Evaluation of an ad campaign</p> <p>5. The techniques for evaluation of an ad campaign</p> <p>6. Evaluate the ad in terms of its effects, that is, to what extent the campaign has achieved its own objectives</p> <p>7. Explain appreciate the creative aspects of the ad from the ad looks, its layout, color scheme, typography, slogans, etc.</p> <p>8. Compare cases based on the creative mix</p> <p>9. Challenge based on creative elements and the physically mentally challenged</p>	<p>1. Explain advertising objectives techniques</p> <p>2. The techniques Evaluation of an ad campaign</p> <p>3. The techniques for evaluation of an ad campaign</p> <p>4. Evaluate the ad in terms of its effects, that is, to what extent the campaign has achieved its own objectives</p> <p>5. Explain appreciate the creative aspects of the ad from the ad looks, its layout, color scheme, typography, slogans, etc.</p> <p>6. Compare cases based on the creative mix</p> <p>7. Challenge based on creative elements and the physically mentally challenged</p> <p>8. <b>Essential Features: Creative strategy &amp; Structure</b></p>	<p>1. Explain advertising objectives techniques</p> <p>2. The techniques Evaluation of an ad campaign</p> <p>3. The techniques for evaluation of an ad campaign</p> <p>4. Evaluate the ad in terms of its effects, that is, to what extent the campaign has achieved its own objectives</p> <p>5. Explain appreciate the creative aspects of the ad from the ad looks, its layout, color scheme, typography, slogans, etc.</p> <p>6. Compare cases based on the creative mix</p> <p>7. Challenge based on creative elements and the physically mentally challenged</p>	
<p>Signature of Examinator: </p>	<p>Signature of Subject Teacher:  </p>		




**LAW CHARITABLE TRUSTS**  
**SRINIVASA DEVI ARIYAN COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**DR. S. RADHAKRISHNAN ROAD, ANTIPOOR, TIRUPATI - 517 002**

**Teaching Plan and Implementation Record (TRIP-24)**

Department	B.A/BBC		
Name of Teacher	Mrs. Manjula Mahalingam		
Class / SEM / Semester	VI	Subject	Consumer Behaviour
		Subject Code	BANNO 16B1101
No. of Lectures Allotted per week: 04	No. of Lectures Covered per Semester: 01	No. of Lectures Allotted per Semester: 04	

Week of teaching	Topic Proposed	Topic Covered	No. of Lectures per week
01	<b>Module 1</b> 1. Introduction to Consumer Behaviour Need to study Consumer Behaviour Psychological and Sociological Aspects of consumption Consumer Behaviour in a dynamic and digital world 2. Marketing and Consumer Behaviour Segmentation Strategies: STP Communication process Promotions: Trade and Incentives ELM: Promotions advertising appeals	<b>Module 1</b> 1. Introduction to Consumer Behaviour Need to study Consumer Behaviour Psychological and Sociological Aspects of consumption Consumer Behaviour in a dynamic and digital world 2. Marketing and Consumer Behaviour Segmentation Strategies: STP Communication process Promotions: Trade and Incentives ELM: Promotions advertising appeals	01 (One 15 minutes lecture per 15 days to cover 01 lecture)
02	<b>Module 2</b> Psychological Determinants and Consumer Behaviour 1. Motivation: Types and Theories: Maslow 2. Attitude: Characteristics: Theories: Transformation 3. Multi Attribute Model 4. Cognitive Dissonance 5. Personality: Factors of personality 6. Theories: Freud and Jung 7. Personality traits and consumer behaviour 8. Self-concept Application of these theories in the marketing and consumer behaviour <b>Module 3</b>	<b>Module 2</b> Psychological Determinants and Consumer Behaviour 1. Motivation: Types and Theories: Maslow 2. Attitude: Characteristics: Theories: Transformation 3. Multi Attribute Model 4. Cognitive Dissonance 5. Personality: Factors of personality 6. Theories: Freud and Jung 7. Personality traits and consumer behaviour 8. Self-concept Application of these theories in the marketing and consumer behaviour <b>Module 3</b>	01 (15 lecture hour as per 15 days)



	<p>Reviewers of Learning in Consumer Behavior</p> <ol style="list-style-type: none"> <li>1. Perception: Elements in perception</li> <li>a. Subliminal perception</li> <li>b. Perceptual Interference: Sensory adaptation</li> <li>2. Learning: Elements in Consumer Learning</li> <li>3. Behavioral and Choice Theory</li> <li>4. Cognitive Learning</li> </ol>	<p>Reviewers of Learning in Consumer Behavior</p> <ol style="list-style-type: none"> <li>1. Perception: Elements in perception</li> <li>a. Subliminal perception</li> <li>b. Perceptual Interference: Sensory adaptation</li> <li>2. Learning: Elements in Consumer Learning</li> <li>3. Behavioral and Choice Theory</li> <li>4. Cognitive Learning</li> </ol>	
August	<p>Module IV</p> <p>Topic: Economic and Cultural Determinants of Consumer Behavior</p> <ol style="list-style-type: none"> <li>1. Family: Role of Family in Socialization and Consumption- FLC</li> <li>2. Culture: Role and Dynamics</li> <li>3. Subculture and its influence on consumption</li> <li>a. Changing Subculture values</li> <li>b. Core values consumer practices</li> <li>3. Social Group: Primary and secondary and its role of Reference group and Consumer Behavior</li> <li>4. Normative control class on the program</li> <li>5. Determinants of consumer behavior</li> </ol>	<p>Module IV</p> <p>Topic: Economic and Cultural Determinants of Consumer Behavior</p> <ol style="list-style-type: none"> <li>1. Family: Role of Family in Socialization and Consumption- FLC</li> <li>2. Culture: Role and Dynamics</li> <li>3. Subculture and its influence on consumption</li> <li>a. Changing Subculture values</li> <li>b. Core values consumer practices</li> <li>3. Social Group: Primary and secondary and its role of Reference group and Consumer Behavior</li> <li>4. Normative control class on the program</li> <li>5. Determinants of consumer behavior</li> </ol>	<p>1000</p> <p>includes internet access</p> <p>includes library access</p> <p>includes TV and VCR</p> <p>includes audio and video</p> <p>includes CD-ROM</p> <p>includes internet and Print New Year Study</p>
September	<p>Module V</p> <p>Consumer Decision Making</p> <ol style="list-style-type: none"> <li>a. Process of decision making</li> <li>a. Models of decision making</li> <li>a. Optimal Learning</li> <li>2. Diffusion and Adoption Process</li> <li>a. Process of decision making</li> <li>a. Models of decision making</li> <li>a. Optimal Learning</li> <li>3. Diffusion and Adoption Process</li> </ol>	<p>Module V</p> <p>Consumer Decision Making</p> <ol style="list-style-type: none"> <li>a. Process of decision making</li> <li>a. Models of decision making</li> <li>a. Optimal Learning</li> <li>2. Diffusion and Adoption Process</li> <li>a. Process of decision making</li> <li>a. Models of decision making</li> <li>a. Optimal Learning</li> <li>3. Diffusion and Adoption Process</li> </ol>	<p>1000</p> <p>includes internet access</p>
Signature of Coordinator:		Signature of Subject Teacher:	 

**CLASSIFIED TRUSTS**  
**SOUTH DAKOTA SENATE OFFICE OF ARTS, HISTORY & CULTURE**  
**101 S. MICHIGAN AVENUE, SIOUX FALLS, SD 57105**

**Reading Plan and Implementation Record (RIP-IR)**

**Agreement**

**Name of Teacher**

**Title** 012022

**Subject** 2

**Subject** **Wood Building**

**Subject Code** 80000, 80001, 80002

**No. of lessons selected per week** 20

**No. of lessons completed per semester** 20

**No. of lessons selected per semester** 20

Number of Readings	Topic Proposed	Topic Covered	No. of lessons per week
10	<p>Module 1 Introduction to Wood Building, history, Processes and Finishing</p> <p>1. Introduction to Wood Building</p> <p>Materials, Products of Wood, Why Wood? Sources, Process of Woodworking, Types of Wood, National Wood Products Association, Current Global Sources, Wood Building</p> <p>Module 1 Introduction to efficient wooding, Wood Finishes: types of Wood Finishes</p> <p>2. Wood Finishes and Wood Finishing</p> <p>Finishes, National Wood Finishing Association, Public Service Center, National Wood Finishing Association, Wood Finishes</p> <p>3. Wood Finishing</p> <p>Product Line, Customer experience, Personalizing wood products and finishes, Commercial wood finishing</p> <p>2022-2023</p>	<p>Module 1 Introduction to Wood Building, history, Processes and Finishing</p> <p>1. Introduction to Wood Building</p> <p>Materials, Products of Wood, Why Wood? Sources, Process of Woodworking, Types of Wood, National Wood Products Association, Current Global Sources, Wood Building</p> <p>Module 1 Introduction to efficient wooding, Wood Finishes: types of Wood Finishes</p> <p>2. Wood Finishes and Wood Finishing</p> <p>Finishes, National Wood Finishing Association, Public Service Center, National Wood Finishing Association, Wood Finishes</p> <p>3. Wood Finishing</p> <p>Product Line, Customer experience, Personalizing wood products and finishes, Commercial wood finishing</p> <p>2022-2023</p>	<p>10                      (100%)                      10/20                      100%                      100%</p>
10	<p>Module 2 Woodworking Techniques, Types of Wood, Wood Finishing</p> <p>1. Wood Finishing</p> <p>Why Wood? Sources, Types of Wood, National Wood Products Association, Current Global Sources, Wood Building</p> <p>Module 2 Introduction to efficient wooding, Wood Finishes: types of Wood Finishes</p> <p>2. Wood Finishes and Wood Finishing</p> <p>Finishes, National Wood Finishing Association, Public Service Center, National Wood Finishing Association, Wood Finishes</p> <p>3. Wood Finishing</p> <p>Product Line, Customer experience, Personalizing wood products and finishes, Commercial wood finishing</p> <p>2022-2023</p>	<p>Module 2 Woodworking Techniques, Types of Wood, Wood Finishing</p> <p>1. Wood Finishing</p> <p>Why Wood? Sources, Types of Wood, National Wood Products Association, Current Global Sources, Wood Building</p> <p>Module 2 Introduction to efficient wooding, Wood Finishes: types of Wood Finishes</p> <p>2. Wood Finishes and Wood Finishing</p> <p>Finishes, National Wood Finishing Association, Public Service Center, National Wood Finishing Association, Wood Finishes</p> <p>3. Wood Finishing</p> <p>Product Line, Customer experience, Personalizing wood products and finishes, Commercial wood finishing</p> <p>2022-2023</p>	<p>10                      (100%)                      10/20                      100%                      100%</p>



	<p>Elements: Sources, Measurement, Brand awareness, Brand Health Metrics, Year B - Geopond model Brand Asset Valuation, Brand Equity Test, Brand Asset Equity Brand</p> <p>Module 10: Brand Building Through Innovation, Global and Corporate Strategy</p> <p>1. Brand Innovation</p> <p>Contribution across organization, Coordination across geography, Re-branding, re-positioning, Brand Advertising and Media</p> <p>2. Global Brand</p> <p>Emergence of global brands, Advantages and Disadvantages, Global Marketing Strategy and practice, Challenges</p> <p>3. Corporate Image Building through Brand</p> <p>Corporate Image in Contemporary Management, Advertising and Corporate Image</p>	<p>Elements: Brand Architecture- Strength of a Branding Strategy, Depth of a Branding Strategy</p> <p>1. Brand Equity and Metrics</p> <p>Elements: Sources, Measurement, Brand awareness, Brand Health Metrics, Year B - Geopond model Brand Asset Valuation, Brand Equity Test, Brand Asset Equity Brand</p> <p>Module 10: Brand Building Through Innovation, Global and Corporate Strategy</p> <p>1. Brand Innovation</p> <p>Contribution across organization, Coordination across geography, Re-branding, re-positioning, Brand Advertising and Media</p> <p>2. Global Brand</p> <p>Emergence of global brands, Advantages and Disadvantages, Global Marketing Strategy and practice, Challenges</p> <p>3. Corporate Image Building through Brand</p> <p>Corporate Image in Contemporary Management, Advertising and Corporate Image</p>	
<p>Topic</p>	<p>Module 11: Brand Building Through CSR, Innovative Business Models, Brand Life Cycle</p> <p>1. Brand Building through Corporate Social Responsibility</p> <p>CSR as part of business environmental management, How CSR activities can be used for Brand Building, Social activities often that CSR is different for brand</p>	<p>Module 11: Brand Building Through CSR, Brands in Different Sectors, Brand Life Cycle</p> <p>1. Brand Building through Corporate Social Responsibility</p> <p>CSR as part of business environmental management, How CSR activities can be used for Brand Building, Social activities often that CSR is different for brand</p>	<p>11+1 (Include external credit)</p>
<p>Subject</p>	<p>1. Consumer and Brand</p> <p>Segmentation based on consumption and various stages of growth and maturity of brands, Brand success case studies</p> <p>2. Branding in Different Sectors</p> <p>3. Sources, Inherent, Acquired and Services Brands</p>	<p>1. Consumer and Brand</p> <p>Segmentation based on consumption and various stages of growth and maturity of brands, Brand success case studies</p> <p>2. Branding in Different Sectors</p> <p>3. Sources, Inherent, Acquired and Services Brands</p> <p>Brand Life Cycle (Brand Building &amp; Revival)</p>	<p>11+1 (Include internal credit)</p> <p>11+1 (Include external credit)</p> <p>11+1 (Include external credit)</p>
<p>Signature of Coordinator</p>		<p>Signature of Subject Teacher</p> 	

**LAWYER MASTERS TRUST**  
**WISCONSIN STATE COLLEGE OF ARTS, SCIENCE & BUSINESS**  
**DR. T. RAJAMURTHYAN NAIR, UNIVERSITY NUMBER: 000000**

**Teaching Plan and Implementation Record (2021-22)**

Department:		LAW	
Name of Teacher:		Dr. T. Rajamurthy Nair	
Class (L1000L, L2000L, L3000L):		Subject: Agency Management	Course Code: 200004 (Semester: 02)
No. of Sections Assigned per Semester: 01		No. of Sections Covered per Semester: 01	No. of Sections allotted per Semester: 01
Month of Teaching	Topic Proposed	Topic Covered	No. of Sections per Month



**Module 1**

1. Advertising Agencies
- a. Agencies role, Functions, Organization and Importance
- b. Different types of ad agencies
2. Account Planning
- a. Role of account planning in advertising
- b. Role of Account Planner
3. Account Planning Process
3. Client Services
- a. The Client Agency Relationship
- b. 3P's of Service: Physical evidence, Process and People
4. The Client Model of service quality
- a. Steps in the client-agency relationship
- b. How Agencies Lost Clients
3. Why Agencies Lost Clients
- a. The roles of Advertising Account executives
4. Advertising Campaign Management
- a. Means, End planning and the
- b. Method of Labeling as guide to create Advertising Campaigns

**Module 2**

- Study and Analyze various Advertising campaigns of the best advertising agencies for their clients.
1. Two recent campaigns (2nd time two years) for each of the following agencies including TVC, Print, Outdoor and digital should be studied in the classroom.
    - a. P&G
    - b. Ogilvy
    - c. Lowe Lintas
    - d. McCann
    - e. DDB needs
  2. Famous Workbooks
  3. At least three international awards winning services and campaigns (one or two year period) should be analyzed and discussed in the classroom. The application questions are provided in the below campaign.

**Module 1**

1. Advertising Agencies
- a. Agencies role, Functions, Organization and Importance
- b. Different types of ad agencies
2. Account Planning
- a. Role of account planning in advertising
- b. Role of Account Planner
3. Account Planning Process
3. Client Services
- a. The Client Agency Relationship
- b. 3P's of Service: Physical evidence, Process and People
4. The Client Model of service quality
- a. Steps in the client-agency relationship
- b. How Agencies Lost Clients
3. Why Agencies Lost Clients
- a. The roles of Advertising Account executives
4. Advertising Campaign Management
- a. Means, End planning and the
- b. Method of Labeling as guide to create Advertising Campaigns

**Module 2**

- Study and Analyze various Advertising campaigns of the best advertising agencies for their clients.
1. Two recent campaigns (2nd time two years) for each of the following agencies including TVC, Print, Outdoor and digital should be studied in the classroom.
    - a. P&G
    - b. Ogilvy
    - c. Lowe Lintas
    - d. McCann
    - e. DDB needs
  2. Famous Workbooks
  3. At least three international awards winning services and campaigns (one or two year period) should be analyzed and discussed in the classroom. The application questions are provided in the below campaign.

14  
 Class V  
 Worksheet  
 of Work  
 (14.02.2024)  
 204 Institute  
 name as per  
 TET



Module 12

- 1. Entrepreneurship
- 2. Entrepreneurship
- Definitions, Meaning, Concept, Functions, Need and Importance
- 3. Entrepreneurship: An Introduction, Risk taking and profit-making ability
- a. Social Entrepreneurship
- 2. Sources of capital for start-up business
- 4. Personal investment
- 5. Family
- a. Venture capital
- 6. Angels/Venture
- a. Business incubators
- 7. Government grants and subsidies
- 8. Bank loan
- 9. Crowdfunding and Raising the Troops
- a. Sources of loan ideas
- 6. Methods of generating ideas: creating positive settings
- a. product planning and development process

Module 13

- 1. Business Plan for Setting up an Agency
- a. Business plan introduction
- 2. Various Types of setting up a new agency
- 3. Marketing plan of the agency
- a. The Marketing plan
- b. Marketing Audit
- c. Marketing Objectives
- d. Marketing Problems
- e. STP
- f. Forecasting the plan
- g. Evaluating the plan

Module 14

- 1. Entrepreneurship
- 2. Entrepreneurship
- Definitions, Meaning, Concept, Functions, Need and Importance
- 3. Entrepreneurship: An Introduction, Risk taking and profit-making ability
- 4. Social Entrepreneurship
- 2. Sources of capital for start-up business
- a. Personal investment
- 5. Family
- a. Venture capital
- 6. Angels/Venture
- a. Business incubators
- 7. Government grants and subsidies
- 8. Bank loan
- 9. Crowdfunding and Raising the Troops
- a. Sources of loan ideas
- 6. Methods of generating ideas: creating positive settings
- a. product planning and development process

Module 15

- 1. Business Plan for Setting up an Agency
- a. Business plan introduction
- 2. Various Types of setting up a new agency
- 3. Marketing plan of the agency
- a. The Marketing plan
- b. Marketing Audit

Further not covered as per topic proposed



11  
7 factors  
how to get  
12 also to  
not know  
that your  
market  
reality

<p><b>August</b></p>	<p>1. Marketing Objectives 2. Marketing Problems 3. STP 4. Forecasting the plan 5. Evaluating the plan</p> <p><b>Module 1</b></p> <p>1. The Business Process 2. Traditional Enterprise Business Model</p> <p>3. Communication Objectives</p> <p>1. STAMMAE: An Approach to Agency Objectives 2. Agency Compensation 3. Various methods of Agency Remuneration 4. Creating the Agency 5. The PACT report for proposed advertising plan, Paid Plans 6. Salesperson: Image and reputation, PB</p> <p>4. Sales Promotions Management</p> <p>1. The Scope and Role of Sales Promotion 2. Reasons for the Success of Sales Promotion</p>	<p>1. Marketing Objectives 2. Marketing Problems 3. STP 4. Forecasting the plan 5. Evaluating the plan</p> <p><b>Module 1</b></p> <p>1. The Business Process 2. Traditional Enterprise Business Model</p> <p>3. Communication Objectives</p> <p>1. STAMMAE: An Approach to Agency Objectives 2. Agency Compensation 3. Various methods of Agency Remuneration 4. Creating the Agency 5. The PACT report for proposed advertising plan, Paid Plans 6. Salesperson: Image and reputation, PB</p> <p>4. Sales Promotions Management</p> <p>1. The Scope and Role of Sales Promotion 2. Reasons for the Success of Sales Promotion</p>	<p>010 020 030 040 050 060 070 080 090 100</p>
<p><b>September</b></p>	<p>1. Objectives of Trade Oriented Sales Promotions 2. Techniques of Trade Oriented Sales Promotions 3. Objectives of Consumer Oriented Sales Promotions 4. Techniques of Consumer Oriented Sales Promotions</p>	<p>1. Objectives of Trade Oriented Sales Promotions 2. Techniques of Trade Oriented Sales Promotions 3. Objectives of Consumer Oriented Sales Promotions 4. Techniques of Consumer Oriented Sales Promotions</p> <p><b>Brand/End User (Health Taking &amp; Services)</b></p>	<p>110 120 130 140 150 160 170 180 190 200</p>
<p>Signature of Coordinator: </p>		<p>Signature of Subject Teacher: </p>	



**LAOAO CHARTERED TRUST**  
**MADEIRA LEE & BERKEY COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**OF 4 BANGKOKROAD (OLD) APONTECITA, DUMAGUITE, CEBU**

**Marketing Plan and Implementation Report (2023-24)**

Department: <b>MARKETING</b>		Faculty: <b>Ms. Cherry Lee</b>	
Name of Teacher: _____		Subject: <b>Digital Media</b>	
Course: <b>BA/BSC Marketing</b>		Target Total Student Enrollment: _____	
No. of sections/semester: <b>04</b>		No. of sections/Classroom per Semester: <b>04</b>	
No. of sections/semester: <b>04</b>		No. of sections/Classroom per Semester: <b>04</b>	

Week of Learning	Topic Proposed	Topic Covered	No. of sections per topic
<b>Week 1</b>		<b>Topic 1 - Law regarding Internet Marketing</b>	<b>04</b>
<b>Week 2</b>			<b>04</b>
<b>Week 3</b>			<b>04</b>
<b>Week 4</b>			<b>04</b>
<b>Week 5</b>			<b>04</b>
<b>Week 6</b>			<b>04</b>
<b>Week 7</b>			<b>04</b>
<b>Week 8</b>			<b>04</b>
<b>Week 9</b>			<b>04</b>
<b>Week 10</b>			<b>04</b>
<b>Week 11</b>			<b>04</b>
<b>Week 12</b>			<b>04</b>
<b>Week 13</b>			<b>04</b>
<b>Week 14</b>			<b>04</b>
<b>Week 15</b>			<b>04</b>
<b>Week 16</b>			<b>04</b>
<b>Week 17</b>			<b>04</b>
<b>Week 18</b>			<b>04</b>
<b>Week 19</b>			<b>04</b>
<b>Week 20</b>			<b>04</b>
<b>Week 21</b>			<b>04</b>
<b>Week 22</b>			<b>04</b>
<b>Week 23</b>			<b>04</b>
<b>Week 24</b>			<b>04</b>
<b>Week 25</b>			<b>04</b>
<b>Week 26</b>			<b>04</b>
<b>Week 27</b>			<b>04</b>
<b>Week 28</b>			<b>04</b>
<b>Week 29</b>			<b>04</b>
<b>Week 30</b>			<b>04</b>
<b>Week 31</b>			<b>04</b>
<b>Week 32</b>			<b>04</b>
<b>Week 33</b>			<b>04</b>
<b>Week 34</b>			<b>04</b>
<b>Week 35</b>			<b>04</b>
<b>Week 36</b>			<b>04</b>
<b>Week 37</b>			<b>04</b>
<b>Week 38</b>			<b>04</b>
<b>Week 39</b>			<b>04</b>
<b>Week 40</b>			<b>04</b>
<b>Week 41</b>			<b>04</b>
<b>Week 42</b>			<b>04</b>
<b>Week 43</b>			<b>04</b>
<b>Week 44</b>			<b>04</b>
<b>Week 45</b>			<b>04</b>
<b>Week 46</b>			<b>04</b>
<b>Week 47</b>			<b>04</b>
<b>Week 48</b>			<b>04</b>
<b>Week 49</b>			<b>04</b>
<b>Week 50</b>			<b>04</b>
<b>Week 51</b>			<b>04</b>
<b>Week 52</b>			<b>04</b>



- a. Advanced advertising
- b. Campaign types
- c. Content of Google Display Ad Campaigns (CDA)
- d. Display Ad format
- e. Conversion tracking
- f. CCM Campaign creation (CMA)
- g. Remarketing
- h. Migration/Google mapping Ad
- Module IV
- a. Social Media Marketing (SMM)
- b. Introduction to Social Media
- c. Facebook Marketing
- d. Instagram Marketing
- e. LinkedIn Marketing
- f. Twitter Marketing
- g. SMM Tools
- h. Creating a successful social media strategy

**Module V**

- 1. Social Marketing
- 2. Key terms and concepts

**Module VI**

- 1. Social Marketing
- 2. Key terms and concepts
- 3. Customer relationship strategies
- 4. Brand Extension (CBM)
- 5. Trade-in extension and co-branding
- 6. Database marketing

**Module VII**

- a. Web Analytics
- b. Introduction to analytics
- c. Social CRM and analytics
- d. Google Analytics
- e. Digital Analytics
- f. Content performance analysis
- g. Video analytics
- h. Social media analytics

**Module VIII**

- 1. Affiliate Marketing and Programmatic Marketing
- 2. Affiliate Marketing

- a. Advanced advertising
- b. Campaign types
- c. Content of Google Display Ad Campaigns (CDA)
- d. Display Ad format
- e. Conversion tracking
- f. CCM Campaign creation (CMA)
- g. Remarketing
- h. Migration/Google mapping Ad
- Module IV
- a. Social Media Marketing (SMM)
- b. Introduction to Social Media
- c. Facebook Marketing
- d. Instagram Marketing
- e. LinkedIn Marketing
- f. Twitter Marketing
- g. SMM Tools
- h. Creating a successful social media strategy

Partners and user in program proposed

**Module V**

- 1. Social Marketing
- 2. Key terms and concepts
- 3. Customer relationship strategies
- 4. Brand Extension (CBM)
- 5. Trade-in extension and co-branding
- 6. Database marketing

**Module VI**

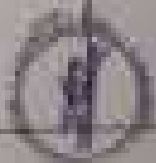
- a. Web Analytics
- b. Introduction to analytics
- c. Social CRM and analytics
- d. Google Analytics
- e. Digital Analytics
- f. Content performance analysis
- g. Video analytics
- h. Social media analytics



**Module VII**

- 1. Affiliate Marketing and Programmatic Marketing
- 2. Affiliate Marketing

Summary

The module content is valid for the year 2021



	<p>6. Definition, Purpose, Resources required, The Process of Affiliate Marketing, Topography of Affiliate marketing</p> <p>1. Programmatic Marketing</p> <p>2. Evolution and growth of programmatic Marketing</p> <p>3. Real Time bidding</p> <p>4. Types of Programmatic Advertising, Advantages and Challenges, State of Programmatic Marketing</p> <p>Module 7:11</p> <p>1. Content writing</p> <p>2. Tools to content writing</p> <p>3. Core Principles of Content writing</p> <p>4. Why blogs matter</p> <p>5. Principles of writing blogs</p> <p>6. How to write content for Twitter and Medium</p>	<p>6. Definition, Purpose, Resources required, The Process of Affiliate Marketing, Topography of Affiliate marketing</p> <p>1. Programmatic Marketing</p> <p>2. Evolution and growth of programmatic Marketing</p> <p>3. Real Time bidding</p> <p>4. Types of Programmatic Advertising, Advantages and Challenges, State of Programmatic Marketing</p> <p>Module 7:11</p> <p>1. Content writing</p> <p>2. Tools to content writing</p> <p>3. Core Principles of Content writing</p> <p>4. Why blogs matter</p> <p>5. Principles of writing blogs</p> <p>6. How to write content for Twitter and Medium</p>	
<p>Week 8</p>	<p>Module 12</p> <p>1. Cyber law</p> <p>2. Information Technology Act</p> <p>3. Copyright Act</p> <p>4. Cyber crime</p> <p>5. Digital Security</p>	<p>Module 12</p> <p>1. Cyber law</p> <p>2. Information Technology Act</p> <p>3. Copyright Act</p> <p>4. Cyber crime</p> <p>5. Digital Security</p> <p>Knowledge Assessment: Practice writing business</p>	<p>3 hours weekly session</p>
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



**LARGE CHARITABLE TRUSTS**  
**UNITED L.L. & B.N. COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**NO. 5, RAJENDRANAGAR ROAD, ANAPARTI, HYDRABAD - 500014**

**Teaching Plan and Implementation Report (2023-24)**




<b>Department:</b>		<b>Faculty:</b>			
<b>Name of Teacher:</b>		<b>Dr. Anurag Singh</b>			
<b>Class (B.A.M.M.)</b>	<b>Section:</b> 01	<b>Subject:</b> Media Planning & Buying	<b>College Code:</b> 800013442100		
<b>No. of Sections Addressed per month:</b> 01		<b>No. of Sections Covered per Semester:</b> 01			
<b>No. of Sections Addressed per Semester:</b> 01		<b>No. of Sections Addressed per Semester:</b> 01			
<b>Module/1</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Sections per week</b>		
<b>Module 1</b>	<b>Module 1: Introduction to Media Planning</b>	<b>Module 1: Introduction to Media Planning</b>	<b>11</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b>		
	1. Introduction to Media Planning	1. Introduction to Media Planning			
	2. Media Terms and Concepts	2. Media Terms and Concepts			
	3. The Structure of Media	3. The Structure of Media			
	4. Objectives of MP	4. Objectives of MP			
<b>Module 2</b>	<b>Module 2: Negotiation Skills in Media Buying</b>	<b>Module 2: Negotiation Skills in Media Buying</b>	<b>11</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b>		
	1. Negotiation Strategies	1. Negotiation Strategies			
	2. Laws of Negotiation	2. Laws of Negotiation			
	<b>Module 3</b>	<b>Module 3: Media planning process</b>		<b>Module 3: Media planning process</b>	<b>11</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b>
		1. Situation analysis and Marketing strategy plan		1. Situation analysis and Marketing strategy plan	
2. Media Buying		2. Media Buying			
3. Media objectives and target audience analysis		3. Media objectives and target audience analysis			
4. Media selection and strategy		4. Media selection and strategy			
<b>Module 4</b>	<b>Module 4: Media buying process</b>	<b>Module 4: Media buying process</b>	<b>11</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b>		
	1. Media buying process and buying strategy plan	1. Media buying process and buying strategy plan			
	2. Media buying	2. Media buying			
	3. Media objectives and target audience analysis	3. Media objectives and target audience analysis			
	4. Media selection and strategy	4. Media selection and strategy			
<b>Module 5</b>	<b>Module 5: Media buying</b>	<b>Module 5: Media buying</b>	<b>11</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b> <b>11 Weeks</b> <b>11 Sessions</b>		
	1. Media buying	1. Media buying			
	2. Media buying	2. Media buying			
	3. Media buying	3. Media buying			
	4. Media buying	4. Media buying			



	<p><b>Section 1: Writing Skills (100 marks)</b></p> <p><b>Module 1: Study Statement</b></p> <ol style="list-style-type: none"> <li>Read</li> <li>Examine</li> <li>Underline key words</li> <li>Identify key words</li> <li>Summarise</li> <li>Write an outline</li> <li>Write an introduction</li> <li>Write an opening</li> <li>Write a conclusion</li> <li>Write a title</li> </ol>	<p><b>Section 2: Writing Skills (100 marks)</b></p> <p><b>Section 1: Study Statement</b></p> <p><b>Section 2: Study Statement</b></p> <p><b>Section 3: Study Statement</b></p> <p><b>Section 4: Study Statement</b></p> <p><b>Section 5: Study Statement</b></p> <p><b>Section 6: Study Statement</b></p> <p><b>Section 7: Study Statement</b></p> <p><b>Section 8: Study Statement</b></p> <p><b>Section 9: Study Statement</b></p> <p><b>Section 10: Study Statement</b></p> <p><b>Section 11: Study Statement</b></p> <p><b>Section 12: Study Statement</b></p> <p><b>Section 13: Study Statement</b></p> <p><b>Section 14: Study Statement</b></p> <p><b>Section 15: Study Statement</b></p> <p><b>Section 16: Study Statement</b></p> <p><b>Section 17: Study Statement</b></p> <p><b>Section 18: Study Statement</b></p> <p><b>Section 19: Study Statement</b></p> <p><b>Section 20: Study Statement</b></p>	
<p><b>Section 2</b></p>	<p><b>Section 1: Writing Skills (100 marks)</b></p> <p><b>Module 1: Study Statement</b></p> <ol style="list-style-type: none"> <li>Read</li> <li>Examine</li> <li>Underline key words</li> <li>Identify key words</li> <li>Summarise</li> <li>Write an outline</li> <li>Write an introduction</li> <li>Write an opening</li> <li>Write a conclusion</li> <li>Write a title</li> </ol> <p><b>Module 2: Research Statement</b></p> <ol style="list-style-type: none"> <li>Read</li> <li>Examine</li> <li>Underline key words</li> <li>Identify key words</li> <li>Summarise</li> <li>Write an outline</li> <li>Write an introduction</li> <li>Write an opening</li> <li>Write a conclusion</li> <li>Write a title</li> </ol> <p><b>Module 3: Writing Skills (100 marks)</b></p> <ol style="list-style-type: none"> <li>Read</li> <li>Examine</li> <li>Underline key words</li> <li>Identify key words</li> <li>Summarise</li> <li>Write an outline</li> <li>Write an introduction</li> <li>Write an opening</li> <li>Write a conclusion</li> <li>Write a title</li> </ol>	<p><b>Section 1: Writing Skills (100 marks)</b></p> <p><b>Section 2: Writing Skills (100 marks)</b></p> <p><b>Section 3: Writing Skills (100 marks)</b></p> <p><b>Section 4: Writing Skills (100 marks)</b></p> <p><b>Section 5: Writing Skills (100 marks)</b></p> <p><b>Section 6: Writing Skills (100 marks)</b></p> <p><b>Section 7: Writing Skills (100 marks)</b></p> <p><b>Section 8: Writing Skills (100 marks)</b></p> <p><b>Section 9: Writing Skills (100 marks)</b></p> <p><b>Section 10: Writing Skills (100 marks)</b></p> <p><b>Section 11: Writing Skills (100 marks)</b></p> <p><b>Section 12: Writing Skills (100 marks)</b></p> <p><b>Section 13: Writing Skills (100 marks)</b></p> <p><b>Section 14: Writing Skills (100 marks)</b></p> <p><b>Section 15: Writing Skills (100 marks)</b></p> <p><b>Section 16: Writing Skills (100 marks)</b></p> <p><b>Section 17: Writing Skills (100 marks)</b></p> <p><b>Section 18: Writing Skills (100 marks)</b></p> <p><b>Section 19: Writing Skills (100 marks)</b></p> <p><b>Section 20: Writing Skills (100 marks)</b></p>	<p><b>Section 2</b></p> <p><b>Section 3</b></p> <p><b>Section 4</b></p> <p><b>Section 5</b></p> <p><b>Section 6</b></p> <p><b>Section 7</b></p> <p><b>Section 8</b></p> <p><b>Section 9</b></p> <p><b>Section 10</b></p> <p><b>Section 11</b></p> <p><b>Section 12</b></p> <p><b>Section 13</b></p> <p><b>Section 14</b></p> <p><b>Section 15</b></p> <p><b>Section 16</b></p> <p><b>Section 17</b></p> <p><b>Section 18</b></p> <p><b>Section 19</b></p> <p><b>Section 20</b></p>




2018  
 10/10/18  
 17/10/18  
 18/10/18

<p><b>e. Channels and Cost of Sales</b></p> <p><b>f. Types</b></p> <p><b>g. Channel Advertising</b></p> <p><b>Module VIII - Media Buying</b></p> <p><b>1. Newspapers</b></p> <p><b>2. Magazines</b></p> <p><b>3. Television</b></p> <p><b>4. Radio</b></p> <p><b>Module IX - Communications mix</b></p> <p><b>Module X - Digital Media Buying</b></p>	<p><b>e. Channels and Cost of Sales</b></p> <p><b>f. Types</b></p> <p><b>g. Channel Advertising</b></p> <p><b>Module VIII - Media Buying</b></p> <p><b>1. Newspapers</b></p> <p><b>2. Magazines</b></p> <p><b>3. Television</b></p> <p><b>4. Radio</b></p> <p><b>Module IX - Communications mix</b></p> <p><b>Module X - Digital Media Buying</b></p>	
<p><b>1. Buying Digital Advertising: An Overview Paid media, Owned media and Earned media</b></p> <p><b>2. Digital Sales Funnel</b></p> <p><b>3. Content buy from the publisher (impact buy)</b></p> <p><b>4. Programmatic Buying</b></p> <p><b>(DSP Demand side Platform) or RTB (Real Time bidding)</b></p> <p><b>5. Advertising via Program Publishers</b></p> <p><b>6. Advertising via Networks and exchanges</b></p> <p><b>7. Affiliate Network (CPA, CPC, Commission based affiliate), Search.com</b></p> <p><b>8. The Local Marketing Model</b></p> <p><b>9. CTV platform</b></p> <p><b>10. Influencer Marketing or social media influence:</b></p> <p><b>11. Content advertising</b></p> <p><b>12. Native advertising</b></p> <p><b>13. App installed campaigns</b></p> <p><b>14. Push notifications</b></p> <p><b>15. Google ads</b></p> <p><b>16. Bing ads</b></p> <p><b>17. Local Promotions</b></p> <p><b>18. Cost per impression</b></p> <p><b>19. Cost per click (CPC)</b></p> <p><b>20. Cost per lead (CPL) / Cost per action (CPA) or pay per action (PPA)</b></p> <p><b>21. Cost per conversion or Revenue sharing or cost per sale</b></p>	<p><b>1. Buying Digital Advertising: An Overview Paid media, Owned media and Earned media</b></p> <p><b>2. Digital Sales Funnel</b></p> <p><b>3. Content buy from the publisher (impact buy)</b></p> <p><b>4. Programmatic Buying</b></p> <p><b>(DSP Demand side Platform) or RTB (Real Time bidding)</b></p> <p><b>5. Advertising via Program Publishers</b></p> <p><b>6. Advertising via Networks and exchanges</b></p> <p><b>7. Affiliate Network (CPA, CPC, Commission based affiliate), Search.com</b></p> <p><b>8. The Local Marketing Model</b></p> <p><b>9. CTV platform</b></p> <p><b>10. Influencer Marketing or social media influence:</b></p> <p><b>11. Content advertising</b></p> <p><b>12. Native advertising</b></p> <p><b>13. App installed campaigns</b></p> <p><b>14. Push notifications</b></p> <p><b>15. Google ads</b></p> <p><b>16. Bing ads</b></p> <p><b>17. Local Promotions</b></p> <p><b>18. Cost per impression</b></p> <p><b>19. Cost per click (CPC)</b></p> <p><b>20. Cost per lead (CPL) / Cost per action (CPA) or pay per action (PPA)</b></p> <p><b>21. Cost per conversion or Revenue sharing or cost per sale</b></p>	<p><b>10</b></p> <p><b>11</b></p> <p><b>12</b></p> <p><b>13</b></p> <p><b>14</b></p> <p><b>15</b></p> <p><b>16</b></p> <p><b>17</b></p> <p><b>18</b></p> <p><b>19</b></p> <p><b>20</b></p> <p><b>21</b></p>
<p><b>Signature of Candidate:</b> </p>	<p><b>Signature of Subject Teacher:</b>  </p>	



<p><b>February</b></p>	<p><b>4. Trade &amp; Services Analysis &amp; Test</b></p> <p><b>Module III: Introduction to Marketing</b></p> <p>1. Concept of Retail Marketing</p> <p>Meaning of Marketing, Major Areas of Marketing Management, Role and Responsibilities of Marketers</p> <p>2. Marketing Mix</p> <p>Marketing Mix: Concept of Marketing Management, Marketing Mix of Store off</p> <p>3. Marketing Program</p> <p>Concept of Marketing Program, Importance of Marketing Program</p> <p>4. Sales Management</p> <p>Concept of Sales Management, Role of IT in Sales Management, Concept of Program</p> <p>5. Forecast based on Marketing activities</p> <p>Marketing activities as a competitive advantage, Specialty store strategy, Department store strategy, Super centers, Super specialists</p> <p><b>Module IV: Visual and Online Marketing</b></p> <p>1. Visual Marketing</p> <p>Marketing: Meaning of Visual Marketing, Importance of Visual Marketing, Concept of Visual Marketing</p>	<p><b>4. Trade &amp; Services Analysis &amp; Test</b></p> <p><b>Module III: Introduction to Marketing</b></p> <p>1. Concept of Retail Marketing</p> <p>Meaning of Marketing, Major Areas of Marketing Management, Role and Responsibilities of Marketers</p> <p>2. Marketing Mix</p> <p>Marketing Mix: Concept of Marketing Management, Marketing Mix of Store off</p> <p>3. Marketing Program</p> <p>Concept of Marketing Program, Importance of Marketing Program</p> <p>4. Sales Management</p> <p>Concept of Sales Management, Role of IT in Sales Management, Concept of Program</p> <p>5. Forecast based on Marketing activities</p> <p>Marketing activities as a competitive advantage, Specialty store strategy, Department store strategy, Super centers, Super specialists</p> <p><b>Module IV: Visual and Online Marketing</b></p> <p>1. Visual Marketing</p> <p>Marketing: Meaning of Visual Marketing, Importance of Visual Marketing, Concept of Visual Marketing</p>	<p>10-12</p> <p>Students should consult the list below as per IT or given in other subject.</p>
<p><b>March</b></p>	<p><b>Module V: Visual and Online Marketing</b></p> <p>1. Visual Marketing</p> <p>Marketing: Meaning of Visual Marketing, Importance of Visual Marketing, Concept of Visual Marketing</p> <p>2. Visual Marketing in India</p> <p>Visual Marketing in India, Product Placement and Visual Marketing</p> <p>3. New Year Marketing</p> <p>Marketing: Meaning of New Year Marketing, Importance of New Year Marketing, Product placement in New Year Retail Marketing</p> <p>4. Online Marketing</p> <p>Online marketing: online shopping, Customer Management</p> <p>5. Trade &amp; Services Analysis and Test</p>	<p><b>Module V: Visual and Online Marketing</b></p> <p>1. Visual Marketing</p> <p>Marketing: Meaning of Visual Marketing, Importance of Visual Marketing, Concept of Visual Marketing</p> <p>2. Visual Marketing in India</p> <p>Visual Marketing in India, Product Placement and Visual Marketing</p> <p>3. New Year Marketing</p> <p>Marketing: Meaning of New Year Marketing, Importance of New Year Marketing, Product placement in New Year Retail Marketing</p> <p>4. Online Marketing</p> <p>Online marketing: online shopping, Customer Management</p> <p>5. Trade &amp; Services Analysis and Test</p> <p>6. Retail Analysis: Retailer, Retailer Strategy</p>	<p>10-12</p> <p>Students should consult the list below as per IT</p>
<p>Signature of Examiners:</p>	<p></p>	<p>Signature of Subject Teacher: </p>	<p></p>



	<p><b>1. Promotional Marketing</b>  <b>Experimental Marketing, One to One Marketing, Promotional Marketing</b>  <b>Product Strategy: Perceived Quality and Relationship Marketing, Pricing Strategy: Selling Prices in Retail Brand Equity</b>  <b>Channel Strategy: Direct, Indirect Channels, Web Strategy</b></p>		
<p><b>February</b></p>	<p><b>Module II: Planning and Implementing Brand Marketing Programs</b>  <b>1. Brand Elements</b>  <b>Meaning, Criteria for choosing Brand Elements, Types of Brand Elements, Improving Marketing Programs and Services</b>  <b>1. Promotional Marketing</b>  <b>Experimental Marketing, One to One Marketing, Promotional Marketing</b>  <b>Product Strategy: Perceived Quality and Relationship Marketing, Pricing Strategy: Selling Prices in Retail Brand Equity</b>  <b>Channel Strategy: Direct, Indirect Channels, Web Strategy</b>  <b>1. Cause Marketing in Retail Brand Equity</b>  <b>Meaning of cause Marketing, Advantages, Cause Marketing Strategy, Ethical Considerations Retail Brand Equity</b></p> <p><b>Module III: Growing and Sustaining Brand Equity</b>  <b>1. The Brand Value Chain Model</b>  <b>Value drivers and implications, What to track, designing brand equity studies</b>  <b>2. Brand Equity</b>  <b>Meaning, Importance, Objectives, Sources of Brand Equity, Steps of Brand Building including Brand Building, Brands, Leveraging Secondary Brand Associations in Retail Brand Equity</b>  <b>1. Marketing Strategy of Brand Equity</b>  <b>Qualitative Research Techniques: Projective Techniques, Conjoint Analysis, Brand Personality and Values, The Big Two, Two Attributes</b></p>	<p><b>Module I: Planning and Implementing Brand Marketing Programs</b>  <b>1. Brand Elements</b>  <b>Meaning, Criteria for choosing Brand Elements, Types of Brand Elements, Improving Marketing Programs and Services</b>  <b>2. Promotional Marketing</b>  <b>Experimental Marketing, One to One Marketing, Promotional Marketing</b>  <b>Product Strategy: Perceived Quality and Relationship Marketing, Pricing Strategy: Selling Prices in Retail Brand Equity</b>  <b>Channel Strategy: Direct, Indirect Channels, Web Strategy</b>  <b>1. Cause Marketing in Retail Brand Equity</b>  <b>Meaning of cause Marketing, Advantages, Cause Marketing Strategy, Ethical Considerations Retail Brand Equity</b></p> <p><b>Module II: Growing and Sustaining Brand Equity</b>  <b>1. The Brand Value Chain Model</b>  <b>Value drivers and implications, What to track, designing brand equity studies</b>  <b>2. Brand Equity</b>  <b>Meaning, Importance, Objectives, Sources of Brand Equity, Steps of Brand Building including Brand Building, Brands, Leveraging Secondary Brand Associations in Retail Brand Equity</b></p> <p><b>Particular not mentioned as per paper proposed</b></p>	<p>104          104          104          104          104</p> 

	<p>Qualitative Research Techniques: Brand Awareness, Recognition, Recall, Brand Image, Brand Response</p> <p>3. Measuring Success of Brand Equity</p> <p>Quantitative Research Techniques: Projective Techniques, Comparison, Comparison, Brand Personality and Values: The Big Five, Five Advantages</p> <p>Quantitative Research Techniques: Brand Awareness, Recognition, Recall, Brand Image, Brand Response</p>		
<p><b>MARK</b></p>	<p>Module 11: Measuring and Interpreting Brand Performance</p> <p>1. Brand Performance and Management</p> <p>Global Marketing Strategies: Brand Audit, Role of Brand Manager II: Brand Communication</p> <p>Global Brand Personality, Role of Brand Ambassadors, Celebrity, Loyalty Program</p> <p>3. Managing Brands over Geographic Boundaries</p> <p>Global Marketing Program: advantages and disadvantages</p> <p>Cultural Brand Personality</p>	<p>3. Measuring Success of Brand Equity</p> <p>Qualitative Research Techniques: Projective Techniques, Comparison, Comparison, Brand Personality and Values: The Big Five, Five Advantages</p> <p>Quantitative Research Techniques: Brand Awareness, Recognition, Recall, Brand Image, Brand Response</p> <p>Module 11: Measuring and Interpreting Brand Performance</p> <p>1. Brand Performance and Management</p> <p>Global Marketing Strategies: Brand Audit, Role of Brand Manager II: Brand Communication</p> <p>Global Brand Personality, Role of Brand Ambassadors, Celebrity, Loyalty Program</p> <p>3. Managing Brands over Geographic Boundaries</p> <p>Global Marketing Program: advantages and disadvantages</p> <p>Cultural Brand Personality</p> <p>Essential to learn, should not be forgotten</p>	<p>1418</p> <p>(Faculty member's name as per IT system)</p>
<p>Signature of Candidate:</p>		<p>Signature of Subject Teacher:</p> 	

**LADY EMMA'S TRUSTS**  
**STYRALU & SIMON COLLEGE OF ARTS, DESIGN & COMMERCIAL**  
**DR. S. RAJAGOPALAN NAIR, CHIEF EXECUTIVE OFFICER**

**Marketing Plan and Implementation Report (MPPR)**

<b>Department:</b>	BBA/BA	
<b>Name of Teacher:</b>	Mr. Manoj Mohan Kumar	
<b>Class (Module) / Semester:</b>	<b>Subject:</b> Advertising Design	<b>Subject Code:</b> BBA/BA/2010
<b>No. of classes allotted per week:</b> 02	<b>No. of classes / semester per Semester:</b> 07	<b>No. of classes allotted per Semester:</b> 09

Month of teaching	Topic Taught	Topic Covered	No. of classes per topic
<b>October</b>		Unit VI teaching & assignment: Internal project discussion	02 1. BBA/BA/BA/2010 Internal assessment Date: 01/10/2023
<b>January</b>	<p><b>Module 1 Introduction Advertising Design / Communication Design</b></p> <p>1. Project Design Introduction to Project design &amp; Campaign Campaign outline, Elements to be produced, Workflow</p> <p>2. Role of Agency Organization</p> <p>1. Account plan: Client briefing, Strategy planning</p> <p>2. Media plan: Media research, Media planning, Buying &amp; selling</p> <p>3. Creative copy: From outline, All of the creative ideas, Creative Writing, Execution</p> <p>4. Production copy: Introduction to advertising Photography, TVC, Print of promotional material</p> <p>5. Process of Design</p> <p>Research of</p> <p>1. Product research &amp; analysis</p> <p>2. Market (15) Product &amp; Demography</p> <p>3. Strategic Strategy: SWOT analysis &amp; Plan</p> <p>4. Competitor &amp; review</p> <p>5. Visualisation &amp; Copy</p> <p>6. Production / Strategy for writing</p> <p>7. Creative / Design / Plan</p>	<p><b>Module 1 Introduction Advertising Design / Communication Design</b></p> <p>1. Project Plan Introduction to Project design &amp; Campaign Campaign outline- Elements to be produced, Workflow</p> <p>2. Role of Agency Organization</p> <p>3. Account plan: Client briefing, Strategy planning</p> <p>4. Media plan: Media research, Media planning, Buying &amp; selling</p> <p>5. Creative copy: From outline, All of the creative ideas, Creative Writing, Execution</p> <p>6. Production copy: Introduction to advertising Photography, TVC, Print of promotional material</p> <p>7. Process of Design</p> <p>Research of</p> <p>1. Product research &amp; analysis</p> <p>2. Market (15) Product &amp; Demography</p> <p>3. Strategic Strategy: SWOT analysis &amp; Plan</p> <p>4. Competitor &amp; review</p> <p>5. Visualisation &amp; Copy</p> <p>6. Production / Strategy for writing</p>	09 02 class Plan and that per lecture that is 18 class minimum, 11 are 1 Reg Exam, Classroom and this was constant  09 class lecture of per 11



**2. Art Direction**  
 Role of an director in visual media  
 Working in studios  
 Working in TV: Location, Studio, Camera, Working on  
 storyboard  
 2. Advertising Art & Layout  
 Elements of working job  
 Portfolio: For creative, Camera, Manager  
 TV: Co. Post, Inc. etc  
 Agencies: Advertis. Types for relevant  
 Post. For use. Plus. Creative thinking

**Module II: Design Basics: Language of Visuals**  
 1. Elements of Design: Vocabulary  
 Point, Line, Shape, Size, Tone, Colour, Texture, Space  
 2. Principles of Design: Contrast  
 Proportion, Contrast, Balance, Rhythm, Motion, Unity  
 3. Uses of Design: Rules of Design  
 Emphasis, Proximity, Alignment, Visual path, Space Hierarchy  
 Composition, Colour, Balance, Form creation, Figure & ground or  
 4. Visual Elements: Visual Hierarchy  
 Design & Alignment, Type & colour, Layout design  
 5. Typography: Type as a Design element  
 Classification: Serif, Sans serif, Decorative, Textures etc.  
 Measurement: size, weight, Kern, Track, leading, Justification  
 Head Exaggeration, Missing expressed by superscript

**Module III: Layout: The Storyline**  
 1. Types of Layout  
 Magazine, Portfolio creation, Split, Big type, All over, All at Corner  
 etc.  
 2. Types of Layout  
 Thematic, sequential, Single image, Formed space, Comprehensive  
 3. Choosing Photos  
 Using visual language of working: Type design, suitable with  
 headline, Text lines

**3. Computer Graphic design**  
**4. Art Director**  
 Role of an director in visual media  
 Working in studios  
 Working in TV: Location, Studio, Camera, Working on  
 storyboard  
 4. Advertising Art & Layout  
 Elements of working job  
 Portfolio: For creative, Camera, Manager  
 TV: Co. Post, Inc. etc  
 Agencies: Advertis. Types for relevant  
 Post. For use. Plus. Creative thinking

**Module II: Design Basics: Language of Visuals**  
 1. Elements of Design: Vocabulary  
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 Proportion, Contrast, Balance, Rhythm, Motion, Unity  
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 Emphasis, Proximity, Alignment, Visual path, Space Hierarchy  
 Composition, Colour, Balance, Form creation, Figure & ground  
 or  
 4. Visual Elements: Visual Hierarchy  
 Design & Alignment, Type & colour, Layout design  
 5. Typography: Type as a Design element  
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 Thematic, sequential, Single image, Formed space, Comprehensive  
 3. Choosing Photos  
 Using visual language of working: Type design, suitable with  
 headline, Text lines



	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30)</p> <p><b>3. Putting it Together</b>          Choosing relevant data, using various processes, verbal progression of verbal &amp; visual</p> <p><b>Module 13: Planning a Campaign: Biological Field Project</b>          1. Choosing a problem          Analyzing what is at stake          Analyzing a topic: Theoretical, Experimental, Correlational, Ecological          2. Research          Reading: Various Sources &amp; Journals          Making: Maps &amp; Models, Tables &amp; Diagrams, What needs to be done          How &amp; When          3. Data collection          Collecting in the field, Using various data processing techniques          4. Visualizing &amp; Writing          Choosing appropriate graphs &amp; writing through them          Planning papers for target audiences</p> <p><b>Module 14: Documenting an event with photos &amp; video</b>          1. Log Design: Making an event, Field Data Sheets          Making Log: Deciding what to write          How to write them          Documenting: Paper, using photos          Documenting: Video or audio          2. Log Review: Creating a Log design: Making          Documenting the data collected about the event, Review of notes, Review for clarity, Update as needed          Making an account          Creating a PDF with &amp; use review</p>	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30), etc.</p> <p><b>3. Putting it Together</b>          Choosing relevant data, using various processes, verbal progression of verbal &amp; visual</p> <p><b>Module 14: Planning a Campaign: Making an Event Plan</b>          1. Choosing a problem          Analyzing what is at stake          Analyzing a topic: Theoretical, Experimental, Correlational, Ecological          2. Research          Reading: Various Sources &amp; Journals          Making: Maps &amp; Models, Tables &amp; Diagrams, What needs to be done          How &amp; When          3. Data collection          Collecting in the field, Using various data processing techniques          4. Visualizing &amp; Writing          Choosing appropriate graphs &amp; writing through them          Planning papers for target audiences</p> <p><b>Module 15: Documenting an event with photos &amp; video</b>          1. Log Design: Making an event, Field Data Sheets          Making Log: Deciding what to write          How to write them          Documenting: Paper, using photos          Documenting: Video or audio          2. Log Review: Creating a Log design: Making          Documenting the data collected about the event, Review of notes, Review for clarity, Update as needed          Making an account          Creating a PDF with &amp; use review</p>	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30), etc.</p>
<p>Module 15: Documenting an event with photos &amp; video</p>	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30), etc.</p>	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30), etc.</p>	<p>Setting over one page of text          Choosing appropriate numbers for Hamilton, Gibbards (Pages 26-30), etc.</p>



	<p>Self-aggressive with words (read personally) &amp; some eye          Contacting facilities suitable to stage (actors)</p> <p>4. Contact all interviewees. Track Address. Track of position          location. Meeting location. Personal. Spelling. Spelling. Advantage          of location. Advantage of local surroundings. Spelling.</p> <p>Appropriate location</p> <p>1. The... in the...          The... from the... (script, floor plan, camera shot)          Northwest with. VPK, OHS, STC, NS          Not at the... (script, floor plan)          Planning, Planning &amp; Planning for the...</p>	<p>Self-aggressive with words (read personally) &amp; some eye          Contacting facilities suitable to stage (actors)</p> <p>4. Contact all interviewees. Track Address. Track of position          location. Meeting location. Personal. Spelling. Spelling. Advantage          of location. Advantage of local surroundings. Spelling.</p> <p>Appropriate location</p> <p>1. The... in the...          The... from the... (script, floor plan, camera shot)          Northwest with. VPK, OHS, STC, NS          Not at the... (script, floor plan)          Planning, Planning &amp; Planning for the...</p> <p>Relevant location. Track of location.</p>	<p>1. Contacted...          on page 17...          to perform...</p>
<p>Signature of Candidate: <i>[Signature]</i></p>	<p>Signature of Subject Teacher: <i>[Signature]</i></p>		




**LANKA CHARITABLE TRUSTS**  
**DEPARTMENT OF ARTS, SCIENCE & COMMERCE**  
**DR. S. SUBRAMANIAN RAU, ANTIPOLE OF INDIAN - 2010**




**Teaching Plan and Implementation Record (2021-22)**

<b>Department</b>	MARKET.		
<b>Name of Teacher</b>	Prof. Manoj Kumar		
<b>Class (B.A./B.A.H. Semester)</b>	<b>Subject</b> Advertising and Sales Promotion	<b>Subject Code number (B.A./B.A.H.)</b>	
<b>No. of lessons / Modules per week (2)</b>	<b>No. of Lessons / Modules per Semester (4)</b>	<b>No. of Lessons / Modules per Semester (4)</b>	

Weeks of Teaching	Topic Covered	Topic Covered	No. of Lessons per week
<b>Answer</b>	<p><b>Module 1: Introduction</b></p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types and importance of sales promotion</li> <li>3. Role of Promotion in the Marketing Mix</li> <li>4. The Scope and Role of Sales Promotion</li> <li>5. Reasons for the Success in Sales Promotion</li> <li>6. Consumer Reaction Building and sales promotion building programmes</li> <li>7. Theories in Sales Promotion</li> <li>8. Push promotion</li> <li>9. Pull Promotion</li> <li>10. Compensation theory</li> <li>11. The psychological theories behind sales promotion</li> <li>12. Recognition</li> <li>13. Social Proof</li> <li>14. Power-of-the-Dream Technique</li> <li>15. Power-of-the-Plan Technique</li> <li>16. Loss Aversion</li> <li>17. Social Norms Marketing</li> <li>18. High-Markets, low</li> </ol> <p><b>Module 2:</b></p> <ol style="list-style-type: none"> <li>1. Methods of consumer oriented sales promotion</li> <li>2. Sampling</li> <li>3. Coupons</li> </ol>	<p><b>Module 1: Introduction</b></p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Types and importance of sales promotion</li> <li>3. Role of Promotion in the Marketing Mix</li> <li>4. The Scope and Role of Sales Promotion</li> <li>5. Reasons for the Success in Sales Promotion</li> <li>6. Consumer Reaction Building and sales promotion building programmes</li> <li>7. Theories in Sales Promotion</li> <li>8. Push promotion</li> <li>9. Pull Promotion</li> <li>10. Compensation theory</li> <li>11. The psychological theories behind sales promotion</li> <li>12. Recognition</li> <li>13. Social Proof</li> <li>14. Power-of-the-Dream Technique</li> <li>15. Power-of-the-Plan Technique</li> <li>16. Loss Aversion</li> <li>17. Social Norms Marketing</li> <li>18. High-Markets, low</li> </ol> <p><b>Module 2:</b></p> <p>Push and pull in sales promotion</p>	<p style="text-align: center;"><b>10</b></p> <p style="text-align: center;"><b>TECHNICAL</b></p> <p style="text-align: center;"><b>Subject</b></p> <p style="text-align: center;"><b>Implementation Year</b></p> <p style="text-align: center;"><b>2022-23</b></p> <p style="text-align: center;">The unit has an emphasis on Group activities. It has 4 Big Cases, 1 Exercise and four case studies</p> <p style="text-align: center;">It consists of a total of 100 marks. Students are advised to give equal weightage to all the units.</p>



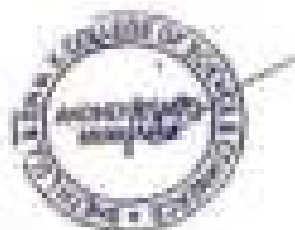
	<ul style="list-style-type: none"> <li>1. Methods</li> <li>2. Market, volume, unit tests</li> <li>3. Controls and frequencies</li> <li>4. Range tests</li> <li>5. Run off</li> <li>6. Exchange offer</li> <li>7. Bid</li> <li>8. Determination of price</li> <li>9. After tax issues</li> </ul>		
<p><b>Answers</b></p>	<p><b>Module 1</b></p> <ul style="list-style-type: none"> <li>1. Methods of issuing secured debt proceeds</li> <li>2. Market</li> <li>3. Controls</li> <li>4. Range</li> <li>5. Run off</li> <li>6. Market, volume, unit tests</li> <li>7. Controls and frequencies</li> <li>8. Range tests</li> <li>9. Run off</li> <li>10. Exchange offer</li> <li>11. Bid</li> <li>12. Determination of price</li> <li>13. After tax issues</li> </ul> <p><b>1. Methods of Trade secured debt proceeds</b></p> <ul style="list-style-type: none"> <li>a. Control &amp; frequency by dealer</li> <li>b. Trade discounts (buying discounts, selling discounts, processing discounts)</li> <li>c. Special payment program</li> <li>d. Non-paying program</li> <li>e. Trade allow and debit adjustment</li> <li>f. Trade allow</li> <li>g. Credit term</li> <li>h. Trade option</li> </ul> <p><b>2. Methods of issue from secured debt proceeds</b></p> <ul style="list-style-type: none"> <li>a. Range and frequency by dealer</li> <li>b. Trade Discount Curve</li> <li>c. Trade Allowance and Adjustment</li> <li>d. Run off</li> <li>e. Trade option</li> <li>f. Determination of price</li> </ul>	<p><b>Module 2</b></p> <ul style="list-style-type: none"> <li>1. Methods of issuing secured debt proceeds</li> <li>2. Market</li> <li>3. Controls</li> <li>4. Range</li> <li>5. Run off</li> <li>6. Market, volume, unit tests</li> <li>7. Controls and frequencies</li> <li>8. Range tests</li> <li>9. Run off</li> <li>10. Exchange offer</li> <li>11. Bid</li> <li>12. Determination of price</li> <li>13. After tax issues</li> </ul> <p><b>1. Methods of Trade secured debt proceeds</b></p> <ul style="list-style-type: none"> <li>a. Control &amp; frequency by dealer</li> <li>b. Trade discounts (buying discounts, selling discounts, processing discounts)</li> <li>c. Special payment program</li> <li>d. Non-paying program</li> <li>e. Trade allow and debit adjustment</li> <li>f. Trade allow</li> <li>g. Credit term</li> <li>h. Trade option</li> </ul> <p><b>2. Methods of issue from secured debt proceeds</b></p> <ul style="list-style-type: none"> <li>a. Range and frequency by dealer</li> <li>b. Trade Discount Curve</li> <li>c. Trade Allowance and Adjustment</li> <li>d. Run off</li> <li>e. Trade option</li> <li>f. Determination of price</li> </ul>	<p>10-2      (a) (b) (c) (d) (e)      (f) (g) (h) (i) (j)      (k) (l) (m) (n) (o)</p> 

	<p><b>1. Issue or assignment</b></p> <p><b>Module 01</b>  <b>Study and analyze sales promotion campaigns on the issue brands.</b></p> <p>a. Three issue programs (the rank of P&amp;G), Consumer Health and service)  b. Three Consumer oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)</p>	<p><b>2. Issue or assignment</b></p> <p><b>Module 02</b>  <b>Study and analyze sales promotion campaigns on the issue brands.</b></p> <p>a. Three issue programs (the rank of P&amp;G), Consumer Health and service)</p>	
<p><b>Mark</b></p>	<p>b. Three Consumer oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)  c. Three issue oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)  d. Three sales issue oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)</p> <p>a. The sales promotion of any issue brands</p> <p><b>Module 03</b></p> <p>1. Evaluating Sales Promotion Efforts  a. Evaluation: Methods of sales promotion  b. Short term and long term effects of sales promotion  c. Long term impact of sales promotion on brand image  d. Influence of Sales Promotion on Consumer Expectations Behavior</p> <p>2. Steps in Designing of sales promotion campaign  a. Designing Levels, contents and frequency program  b. Big idea and creative  c. Continuation and loyalty</p> <p>1. Continuation sales promotion &amp; Advertising  a. Budget allocation  b. Contribution of Ad and Promotion Types  c. Media Support and Timing</p> <p>2. Sales promotion Effect  a. Short run  b. Sales promotion lag</p>	<p><b>3. Issue or assignment</b></p> <p><b>Module 03</b>  <b>Study and analyze sales promotion campaigns on the issue brands.</b></p> <p>a. Three issue oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)  b. Three sales issue oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)  c. Three sales issue oriented sales promotion programs (the rank of P&amp;G), Consumer Health and service)  d. The sales promotion of any issue brands</p> <p><b>Module 04</b></p> <p>1. Evaluating Sales Promotion Efforts  a. Evaluation: Methods of sales promotion  b. Short term and long term effects of sales promotion  c. Long term impact of sales promotion on brand image  d. Influence of Sales Promotion on Consumer Expectations Behavior</p> <p>2. Steps in Designing of sales promotion campaign  a. Designing Levels, contents and frequency program  b. Big idea and creative  c. Continuation and loyalty</p> <p>1. Continuation sales promotion &amp; Advertising  a. Budget allocation  b. Contribution of Ad and Promotion Types  c. Media Support and Timing</p> <p>4. Sales promotion Effect  a. Short run  b. Sales promotion lag</p> <p><b>4. Issue or assignment</b>  <b>Module 04</b>  <b>Study and analyze sales promotion campaigns on the issue brands.</b></p> <p><b>5. Issue or assignment</b>  <b>Module 05</b>  <b>Study and analyze sales promotion campaigns on the issue brands.</b></p>	<p><b>PT-1</b>  <b>includes content</b>  <b>theory</b>  <b>Practical work in</b>  <b>PT-1</b></p>
<p>Signature of Coordinator</p>		<p>Signature of Subject Teacher</p> 	

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DR. S. RADEKARSHINAN MARG, ANDHURI (II), MUMBAI - 400 069**

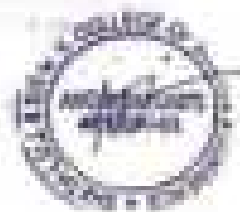
**Tracking Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Vartak</b>	
<b>Class: F.Y.B.Sc. Semester-I. Subject: Fundamentals of Biotechnology-I</b>		<b>Subject Code: USBT101</b>	
<b>No. of lectures Allotted per week: 03</b>		<b>No. of lectures Covered per Semester:32</b>	
		<b>No. of lectures Allotted per Semester: 45</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	<p>Unit 1 - Scope and Introduction to Biotechnology Biotechnology - an interdisciplinary biological science;</p> <p>Biotechnology - definition, History &amp; Introduction to Biotechnology; Traditional and Modern Biotechnology; Scope and importance of Biotechnology; World of Biotechnology- Pharmaceutical Biotechnology (2), Plant Biotechnology, Industrial Biotechnology, Marine Biotechnology, Animal Biotechnology, Medical Biotechnology, Environmental Biotechnology (2)</p>	<p>Biotechnology - definition, History &amp; Introduction to Biotechnology; Traditional and Modern Biotechnology; Scope and importance of Biotechnology; World of Biotechnology- Pharmaceutical Biotechnology (2) World of Biotechnology- Pharmaceutical Biotechnology, Plant Biotechnology; Industrial Biotechnology, Marine Biotechnology, Animal Biotechnology, Medical Biotechnology, Environmental Biotechnology (2)</p>	<b>08</b>
<b>August</b>	<p>Biotechnology in India - Bio-business in India, booming biotech market, success story of biotech market, policy initiatives; and global trends; (2)Biotechnology research in</p>	<p>Biotechnology in India Bio-business in India, booming</p>	<b>03</b>



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	<p>India: Potential of modern biotechnology: (2)          Achievement of biotechnology; Prevention of misuse of biotechnology (2);          Biotechnology Institutions in India (Public and Private Sector); Public Perception of Biotechnology. Case study: Serum Institute of India and its products(2)</p>	<p>biotech market, sustainability of biotech market, policy initiatives; and global trends. (2)/Achievement of biotechnology (2).          Prevention of misuse of biotechnology (2)          Biotechnology Institutions in India (Public and Private Sector); Public Perception of Biotechnology. Case study: Serum Institute of India and its products (2)</p>	
Assign	<p>Unit II-Applications          Applications of biotechnology in          1. Agriculture – GM Insect-GM papaya, GM soya, Insect resistant transgenic plants – Bt cotton, Bt brinjal. (3)          (Modifications in nutrient quality – starch, oil, seed, protein, golden rice. (3)          2. Livestock – growth, disease resistance, product quality, pharmaceuticals and nutritional supplements, industrial applications (3)          3.Human welfare          Cloned genes for production of insulin,          recombinant vaccines for Hepatitis B virus. (3)          Molecular farming, edible vaccines and their advantages.</p>	<p>Unit II-Applications          Applications of biotechnology in          1. Agriculture – GM Insect-GM papaya, GM soya, Insect resistant transgenic plants – Bt cotton, Bt brinjal. (3); (Modifications in nutrient quality – starch, oil, seed, protein, golden rice. (3)          Edible vaccines and their advantages.          4. Environmental- pollution abatement through GMOs, (2)</p>	111



	<p>4. Environment- pollution abatement through GM's, (02)</p> <p>Bioethics, Case study, Genetically modified microbes for bioremediation of oil spills in marine environment (01)</p>		
Aggari	<p><b>Unit III-Fermentation technology</b></p> <p><b>Introduction</b> Introduction to fermentation processes, Microbial biomass, Microbial enzymes, Microbial metabolites, recombinant products, transformation processes, Development of fermentation industry</p> <p><b>Component Parts of fermentation process,</b> <b>Screening: Definition, Primary screening and its methods, Secondary screening and its methods, Fermentor design: Definition of a fermenter, Axial stirred tank batch fermenter-Typical design, (2)</b> <b>Construction materials used, aeration and agitation, Temperature control, Foam production and control, pH measurement and control, CO<sub>2</sub> and O<sub>2</sub> control (2)</b> <b>Fermentation medium:</b> <b>Basic requirements of industrial media, (2)</b> <b>Criteria for use of raw materials in media, Examples of raw materials used, Growth factors, Water, Carbohydrate sources, Protein sources (2)</b></p> <p><b>Product- a typical process of Ethanol production and Antibiotic production (2)</b></p>	<p><b>Introduction, Introduction to fermentation process</b> <b>Microbial biomass, Microbial enzymes, Microbial metabolites, recombinant products, transformation processes, Development of fermentation industry (2)</b></p> <p><b>Screening: Definition, Primary screening and its methods, Secondary screening and its methods.(2)</b></p> <p><b>Fermentor design:</b> <b>Definition of a fermenter, Axial stirred tank batch fermenter-Typical design, Construction materials used, aeration and agitation, Temperature control, Foam production and control, pH measurement and control, CO<sub>2</sub> and O<sub>2</sub> control (3)</b></p> <p><b>Fermentation medium:</b> <b>Basic requirements of industrial media, Criteria for use of raw materials in media, Examples of raw materials used, Growth factors, Water, Carbohydrate sources, Protein sources.</b></p>	10



		Product- a typical process of Ethanol production and Antibiotic production (3)	
August	<p><b>Unit II-Applications</b></p> <p>2. Livestock – growth, disease resistance, product quality, pharmaceuticals and nutritional supplements, industrial applications (02)</p> <p>3 Human welfare          Cloned genes for production of -insulin; (02)          recombinant vaccines for Hepatitis B virus. (01)</p> <p>Molecular Farming, Edible vaccines and their advantages.</p> <p>4 Environment- pollution abatement through GMOs, (03)</p> <p>Bioreactors, Case study: Genetically modified microbes for bioremediation of oil spills in marine environment (02)</p>	<p><b>Unit II-Applications</b></p> <p>2. Livestock – growth, disease resistance, product quality, pharmaceuticals and nutritional supplements, industrial applications 3. Human welfare          Cloned genes for production of -insulin; recombinant vaccines for Hepatitis B virus. (02)</p> <p>Molecular Farming, Edible vaccines and their advantages.</p> <p>4.Environment- pollution abatement through GMOs, (02)</p> <p>Bioreactors, Case study: Genetically modified microbes for bioremediation of oil spills in marine environment (01)</p>	05
Signature of Coordinator: <i>A. Shinde</i>		Signature of Subject Teacher: <i>M. Patil</i>	



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 DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 069

**Teaching Plan and Implementation Record (2023-24)**

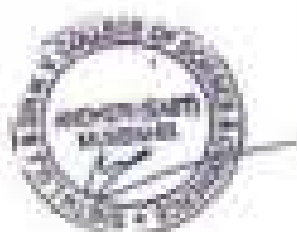
<b>Department</b>	<b>Biotechnology</b>
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<b>Name of teacher</b>	<b>Mrs. Divya Khopde</b>
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<b>Class: F.Y.D.Sc.</b>	<b>Semester-Subject: Microbiology-1</b>	<b>Subject Code: USBT1R2</b>
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<b>No of lectures Allotted per week: 03</b>	<b>No of lectures Covered per Semester: 31</b>
	<b>No of lectures Allotted per Semester: 45</b>

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
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July	<p><b>Unit-1-Introduction to microbiology</b>  <b>Fundamentals, History and Evolution of Microbiology.</b>          Discovery of Microorganisms, Conflict over spontaneous generation. Role of microorganisms in disease The place of Microorganisms in the living world(4)</p>	<p><b>Unit-1-Introduction to microbiology</b>  <b>Fundamentals, History and Evolution of Microbiology.</b>  <b>Unit 1 -</b>          Discovery of Microorganisms, Conflict over spontaneous generation. Role of microorganisms in disease The place of Microorganisms in the living world. (5)</p>	03
August	<p><b>Classification</b>          Classification whittaker's five kingdom classification          Introduction to Bergey's Manual, Groups of Microorganisms          Applications of microbiology in various fields.  <b>Cultivation and Maintenance of microorganisms</b>          Nutritional categories of microorganisms, methods of isolation.</p>	<p><b>Classification whittaker's five kingdom classification</b>          Introduction to Bergey's Manual, Groups of Microorganisms          Applications of microbiology in various fields (4)          Nutritional categories of microorganisms (3)          methods of isolation (1)</p>	08
September-	<p><b>Unit 2- II-Sterilization techniques</b>          Definition : Sterilization and Disinfection.          Types and Applications          Dry Heat, Steam under pressure          Gamma, (3)          Radiation and Filtration(4)          Chemical Agents and their Mode of Action -</p>	<p><b>Unit 2-</b>          Definition : Sterilization and Disinfection.          Types and Applications (1)          Dry Heat, Steam under pressure          Gamma,          Radiation and Filtration (4)          Chemical Agents and their Mode of Action -</p>	10



	Aldehydes, Halogens, Quaternary Ammonium Compounds, Phenol and Phenolic Compounds, Heavy Metals, Alcohol, Dyes, and Disinfectants (4) Ideal Disinfectant. Examples of Disinfectants and Evaluation of Disinfectant (2)	Aldehydes, Halogens, Quaternary Ammonium Compounds, Phenol and Phenolic Compounds, Heavy Metals, Alcohol, Dyes, and Disinfectants (3) Ideal Disinfectant. Examples of Disinfectants and Evaluation of Disinfectant (2)	
September	Unit 3- III- Microscopy and stains Microscope- Simple and Compound. General principles of optics; various parts and their functions- objectives - numerical aperture, resolving power, depth of focus, working distance, aberrations; ocular; condensers.	Unit 3 Microscope- Simple and Compound. General principles of optics; various parts and their functions- objectives - numerical aperture, resolving power, depth of focus, working distance, aberrations; ocular; condensers (2)	07
October	Dark Field Microscope, Phase Contrast Microscope and Fluorescent Microscope, TEM, SEM. Applications of microscopes, Stains and Staining Solutions- Definition of Dye and Chromogen; acidic and basic dyes; functions and types of chromophore and auxochrome groups. Theories to explain staining, Definition and function of stain, mordant, intensifiers and fixative. Natural and Synthetic Dyes. Simple Staining, Differential Staining - Gram staining and Acid Fast Staining with specific examples.	Dark Field Microscope, Phase Contrast Microscope and Fluorescent Microscope, TEM, SEM. (1)  Applications of microscopes, Stains and Staining Solutions- Definition of Dye and Chromogen; acidic and basic dyes; functions and types of chromophore and auxochrome groups. (3)  Theories to explain staining, Definition and function of stain, mordant, intensifiers and fixative (1)  Natural and Synthetic Dyes. Simple Staining, Differential Staining - Gram staining and Acid Fast Staining with specific examples. (3)	07



Signature of Coordinator: 	Signature of Subject Teacher: 
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<b>LAXMI CHARITABLE TRUST'S</b> <b>SHEETHILJI &amp; SRI M.V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RADHAKRISHNAN MARG, ANDHRI (II), MUMBAI - 400 049</b>			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Ms. Divyani Kapadia</b>	
<b>Class: FYBSc - Semester-I Subject: Basic Chemistry Subject Code: USBT103</b>			
<b>No of lectures Allotted per week: 03</b>		<b>No of lectures Covered per Semester: 18</b>	
		<b>No of lectures Allotted per Semester: 45</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	<b>Unit 1 - Classification and Systematic Nomenclature of Organic Compounds, Chemical Bonding: Types and Transition between Main Types of Bonding, (07)</b> <b>Ionic Bond: Nature of Ionic Bond, factors influencing formation of ionic bond, Covalent bond: Nature and Types (04)</b>	<b>Unit 1 - Classification and Systematic Nomenclature of Organic Compounds, Chemical Bonding: Types and Transition between Main Types of Bonding (07), Ionic Bond: Nature of Ionic Bond, factors influencing formation of ionic bond, Covalent bond: Nature and Types (04).</b>	<b>03</b>



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August	<p>Hydrogen Bonding: Theory and Types of Hydrogen Bonding</p> <p>Unit 2 - Titrimetric Analysis: Titration, Titrant, End Point, Equivalence Point, Relative Error, Indicator, Primary and Secondary Standards,</p>	<p>Hydrogen Bonding: Theory and Types of Hydrogen Bonding (92),</p> <p>Unit 2 - Titrimetric Analysis: Titration, Titrant, End Point, Equivalence Point, Relative Error, Indicator, Primary and Secondary Standards, Characteristics and examples (94)</p>	11
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	<p>Characteristics and examples (02)</p> <p>Types of Titration - Acid-Base, Redox, Precipitation, Complexometric titration. Theoretical aspects of Titration Curve and End Point Evaluation (03)</p> <p>Theory of Acid Base Indicators (02)</p> <p>Geometric Analysis (02)</p> <p>Co-Precipitation and Post precipitation (02)</p>	<p>Types of Titration - Acid-Base, Redox, Precipitation, Complexometric titration. Theoretical aspects of Titration Curve and End Point Evaluation (02)</p> <p>Theory of Acid Base Indicators (01)</p> <p>Geometric Analysis (01)</p> <p>Co-Precipitation and Post precipitation (01) /</p>	
<p>Subject:</p>	<p>Unit 3 - Stereochemistry Geometric Isomerism and Optical Isomerism: Enantiomers, Diastereomers, and Racemic Mixtures, Cis-Trans, Trans, Erythro and Meso Isomers. Diastereoisomers (Cis-Trans Isomerism) and cyclodextran</p> <p>Conformation: Conformations of Ethane, Difference between Conformation and Configuration</p> <p>Configuration: Asymmetric Carbon Atoms, Stereogenic/Chiral Centres, Chirality, Flying Wedge Formula</p> <p>Projection Formula - Flying Wedge, Fischer, Sawhorse and Newman</p>	<p>Unit 3 - Stereochemistry Geometric Isomerism and Optical Isomerism: Enantiomers, Diastereomers, and Racemic Mixtures. Cis-Trans, Trans, Erythro and Meso Isomers. (03) Diastereoisomers (Cis-Trans Isomerism) and cyclodextran (02)</p> <p>Conformation: Conformations of Ethane, Difference between Conformation and Configuration (02)</p> <p>Configuration: Asymmetric Carbon Atoms, Stereogenic/Chiral Centres, Chirality, Flying Wedge Formula (04)</p> <p>Projection Formula - Flying Wedge, Fischer, Sawhorse and Newman (03)</p>	11
Signature of Coordinator:	<i>Abhinav</i>	Signature of Subject Teacher:	<i>Dr. Abhinav</i>



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**DR. S. BATHAKRISHNAN MARG, ANHIREDDI (IL) MUMBAI - 400 008**

**Tracking Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Ms. Dayanada Ghosh</b>	
<b>Class: FYB.Sc. Semester-I</b>		<b>Subject: Biochemistry; Concept of Biochemistry-</b>	
<b>1</b>		<b>Subject Code: USBT104</b>	
<b>No. of lectures Allotted per week: 03</b>		<b>No. of lectures Covered per</b>	
<b>Semester: 01</b>		<b>No. of lectures Allotted per Semester: 09</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	<p><b>Unit 1 - Water, Standard solutions and Buffers</b></p> <p>Structure, Properties and functions of water (01)</p> <p><b>Acids and Bases: Lewis- Brønsted and Lewis Concepts. Strong and Weak Acids and Bases - Ionic Product of Water <math>pH, pKa, pKb</math>. Hydrolysis of Salts.</b></p> <p>Do one revision lec on Concept of <math>pH</math> (02)</p>	<p><b>Unit 1 - Water, Standard solutions and Buffers</b></p> <p>Structure, Properties and functions of water (01)</p> <p><b>Acids and Bases: Lewis- Brønsted and Lewis Concepts. Strong and Weak Acids and Bases - Ionic Product of Water <math>pH, pKa, pKb</math>. Hydrolysis of Salts.</b></p> <p>Do one revision lec on Concept of <math>pH</math> (02)</p>	<b>06</b>



<p><b>Buffer solutions – Concept of buffers, Derivation of Henderson Hasselbalch equation for Acids and Basic buffers, Buffering capacity (02)</b></p> <p><b>Biological buffers: Significance of biological buffers, pH of body fluids like blood and urine. (01)</b></p>	<p><b>Buffer solutions – Concept of buffers, Derivation of Henderson Hasselbalch equation for Acids and Basic buffers, Buffering capacity (02)</b></p> <p><b>Biological buffers: Significance of biological buffers, pH of body fluids like blood and urine. (01)</b></p>
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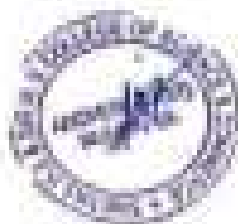
<p><b>Aspect</b></p>	<p>Blood buffer systems. Eg: Carbonate, Acetate and Phosphate buffers. Components, eg of buffers at various pH of cellular significance; explain using <b>Numericals</b> (02)          Protein buffers-Introduction, Significance of TRIS buffers - Introduction (02)          Preparation of standard Solutions:          Concept and significance of Chemical and Biological solutions, Normality, Molarity, Molality, Mole fraction, Mole concept, Solubility, Weight ratio, Volume ratio, Weight to Volume ratio, ppm, ppb, millimoles, milliequivalents (<b>Numericals expected</b>) (03)          Primary and Secondary Standards: Preparation of Standard Solutions Principle of Volumetric Analysis (02)</p>	<p>Blood buffer systems. Eg: Carbonate, Acetate and Phosphate buffers. Components, eg of buffers at various pH of cellular significance; explain using <b>Numericals</b> (02)          Protein buffers-Introduction, Significance of TRIS buffers - Introduction (02)          Preparation of standard Solutions:          Concept and significance of Chemical and Biological solutions, Normality, Molarity, Molality, Mole fraction, Mole concept, Solubility, Weight ratio, Volume ratio, Weight to Volume ratio, ppm, ppb, millimoles, milliequivalents (<b>Numericals expected</b>) (02)          Primary and Secondary Standards: Preparation of Standard Solutions, Principle of Volumetric Analysis (01)</p>	<p>07</p>
<p><b>Aspect</b></p>	<p><b>Unit 2 - Basis of Carbohydrate Chemistry</b>          Carbohydrates: Introduction definition and general formula, Classification of carbohydrates - (01)          Monosaccharides - Two Families of Monosaccharides. Aldo series and keto series; ( Triose - Glyceraldehyde and Dihydroxyacetone, Tetrose- Erythrose and Threulose, Pentose- Xylose, Xylulose, Ribose, Ribulose, Hexose- Glucose, Galactose, Mannose, Hypoxanthine and</p>	<p><b>Unit 2 - Basis of Carbohydrate Chemistry</b>          Carbohydrates: Introduction definition and general formula, Classification of carbohydrates - (01)          Monosaccharides - Two Families of Monosaccharides. Aldo series and keto series; ( Triose - Glyceraldehyde and Dihydroxyacetone, Tetrose- Erythrose and Threulose, Pentose- Xylose, Xylulose, Ribose, Ribulose, Hexose- Glucose, Galactose, Mannose, Hypoxanthine and Sedoheptulose structures to be taught) (02)</p>	<p>12</p>



<p><b>August</b></p>	<p>Polycyclic structures to be taught (04)          Concept of Chiral centres, Mutarotation, Asymmetric carbon and Epimers of glucose.(01)</p> <p>Biologically important Derivatives of Hexoses :          Glucosamine, Glucuronic acid, uronic acid, NADA, NAMA (structures not to be expected in exams) (01)</p> <p>Chemical reactions of monosaccharides, Concept of <math>\alpha</math> glycosidic bond. (01)</p> <p>Disaccharides- Maltose, Lactose, Sucrose, Cellobiose (structures to be taught, Biological significance, structure and bond type) (02)</p> <p>Polysaccharides-          Heteropolysaccharides and Homopolysaccharides, Structural and Storage Polysaccharides .          Eg of polysaccharides <math>\rightarrow</math> starch ( amylose and amylopectin), Glycogen, Pepsidoglycan, Cellulose, chitin, ( structure and bond type) (02)</p> <p>Egs of Reducing and nonreducing carbohydrates. Industrial applications of carbohydrates. Fermentation, Pharmaceutical and Food industry. (01)</p>	<p>Concept of Isotomers, Mutarotation, Asymmetric carbon and Epimers of glucose (01)</p> <p>Biologically important Derivatives of Hexoses :          Glucosamine, Glucuronic acid, uronic acid, NADA, NAMA (structures not to be expected in exams) (01)</p> <p>Chemical reactions of monosaccharides, Concept of glycosidic bond. (01)</p> <p>Disaccharides- Maltose, Lactose, Sucrose, Cellobiose (structures to be taught, Biological significance, structure and bond type) (01)</p> <p>Polysaccharides-          Homopolysaccharides and Heteropolysaccharides; Structural and Storage Polysaccharides : (01)</p> <p>Eg of polysaccharides <math>\rightarrow</math> starch ( amylose and amylopectin), Glycogen, Pepsidoglycan, Cellulose, chitin, ( structure and bond type) Egs of Reducing and nonreducing carbohydrates. Industrial applications of carbohydrates. Fermentation, Pharmaceutical and Food industry. (02)</p>	
<p><b>September &amp; October</b></p>	<p><b>Unit 3 – Basics of Lipid Chemistry</b></p> <p>Introduction to Lipid Chemistry.</p>	<p><b>Unit 3 – Basics of Lipid Chemistry</b></p> <p>Introduction to Lipid Chemistry.</p>	<p>11.</p>



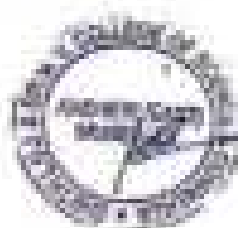
	<p>Definition and Biological functions of fats and Lipids.          Definition of Fatty acids (01)          Classification of Fatty acids:          Saturated Fatty Acids: C2- C20          (1- Examples with trivial name, Biochemical names and Structures) (02)          Unsaturated Fatty Acids:          Definition of MUFA and PUFA, C16- C20, Palmitoleic, Oleic, Linoleic, Linolenic, Arachidonic acid (Structure expected) (04)</p> <p>Storage Lipids:          AcylGlycerols ( Simple and Mixed)          Mono, Di and Triacylglycerols. ( Structures expected) (01)          Properties of Triacylglycerols:          Hydrolysis, Saponification, Antioxidant, Basicity, Acid number, RM number, Action of lipase. (01)</p> <p>Structural Lipids: Phosphatidic acid and Membrane Phospholipids Eg: Phosphatidylcholine, Phosphatidylethanolamine, Phosphatidylserine, Phosphatidylinositol, Cardiolipin. Action of Phospholipase (02).          Steroid: Definition and function Eg: Cholesterol.(01)</p>	<p>Definition and Biological functions of fats and Lipids.          Definition of Fatty acids (01)          Classification of Fatty acids:          Saturated Fatty Acids: C2- C20 (1- Examples with trivial name, Biochemical names and Structures) (02)          Unsaturated Fatty Acids: Definition of MUFA and PUFA, C16- C20, Palmitoleic, Oleic, Linoleic, Linolenic, Arachidonic acid (Structure expected) (03)</p> <p>Storage Lipids:          AcylGlycerols ( Simple and Mixed) Mono, Di and Triacylglycerols. ( Structures expected) (01)          Properties of Triacylglycerols:          Hydrolysis, Saponification, Antioxidant, Basicity, Acid number, RM number, Action of lipase. (01)</p> <p>Structural Lipids: Phosphatidic acid and Membrane Phospholipids Eg: Phosphatidylcholine, Phosphatidylethanolamine, Phosphatidylserine, Phosphatidylinositol, Cardiolipin. Action of Phospholipase (01).          Steroid: Definition and function Eg: Cholesterol (01)</p>	
Signature of Coordinator:		Signature of Subject Teacher:	



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**DR. B. RAJAKRISHNAN MARG, ANTHEM (II), MUMBAI - 400 049**

**Teaching Plan and Implementation Record (2023-24)**

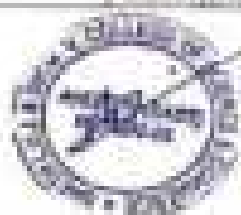
<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Yarkat</b>	
<b>Class: FYB.Sc.</b>	<b>Semester-I</b>	<b>Subject: Genetics</b>	<b>Subject</b>
<b>Code: USBT108</b>			
<b>No of lectures Allotted per week:03</b>		<b>No of lectures Covered per</b>	
<b>Semester:36</b>		<b>No of lectures Allotted per Semester:-</b>	
		<b>45</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
	<b>Unit I-Genetics fundamentals</b>	<b>Unit I -Genetics fundamentals</b>	



July	<p>Introduction to genetic and sub-disciplines of genetics: Transmission genetics, Molecular genetics, Population genetics (82) and Quantitative genetics.</p> <p>Basic Terminologies in genetics (82)</p> <p>Mendelian Genetics</p> <p>Monohybrid Crosses and</p>	<p>Introduction to genetic and sub-disciplines of genetics: Transmission genetics, Molecular genetics (82), Population genetics and Quantitative genetics.</p> <p>Basic Terminologies in genetics (82)</p> <p>Mendelian Genetics</p> <p>Monohybrid Crosses and</p>	04
August	<p>Mendel's Principle of Segregation. Representing crosses with a Branch Diagram. (82)</p> <p>Confirming the principle of Segregation: The use of Test crosses. (81)</p> <p>Dihybrid crosses and Mendel's Principle of Independent Assortment. (81)</p> <p>Extensions of and Deviations from Mendelian Genetic Principles: Multiple Alleles - ABO blood groups (81)</p> <p>Modifications of Dominance Relationships: Incomplete</p>	<p>Mendel's Principle of Segregation. Representing crosses with a Branch Diagram. (82)</p> <p>Confirming the principle of Segregation: The use of Test crosses. (81)</p> <p>Dihybrid crosses and Mendel's Principle of Independent Assortment. (81)</p> <p>Extensions of and Deviations from Mendelian Genetic Principles: Multiple Alleles - ABO blood groups (81)</p> <p>Modifications of Dominance Relationships: Incomplete</p>	08



	<p><b>Disorders and Chromosomes.</b> (01)</p> <p><b>Essential Genes and Lethal Alleles. Effects of the environment on Gene expression.</b> (01)</p> <p><b>Gene Interactions and Modified Mendelian Ratios:</b></p> <p><b>Epistatic and non-epistatic interactions.</b> (01)</p> <p><b>Mendelian Genetics in Humans: Pedigree Analysis. Examples of Human Genetic Traits.</b> (02)</p>	<p><b>Disorders and Chromosomes. Essential Genes and Lethal Alleles. Effects of the environment on Gene expression.</b> (01)</p> <p><b>Gene Interactions and Modified Mendelian Ratios:</b></p> <p><b>Epistatic and non-epistatic interactions.</b> (01)</p> <p><b>Mendelian Genetics in Humans: Pedigree Analysis. Examples of Human Genetic Traits.</b> (01)</p>	
August	<p><b>Unit II- Microbial genetics</b></p> <p><b>Genetic analysis in Bacteria:Prototrophs, Auxotrophs.</b> (01)</p> <p><b>Genetic Mapping in Bacteria by Conjugation:</b></p> <p><b>Discovery of Conjugation in E.coli. The sex factor F, High-Frequency Recombination Series of E.coli. F' Factors. Using conjugation to map bacterial genes-Interrupted-mating (04)</b></p> <p><b>Genetic mapping in bacteria by Transformation.</b> (01)</p> <p><b>Genetic mapping in Bacteria by Transduction.</b> (01)</p> <p><b>Bacteriophages - Lytic and Lysogenic pathway.</b> (02)</p> <p><b>Transduction Mapping of Bacterial Chromosomes - Generalized Transduction and Specialized Transduction.</b> (02)</p>	<p><b>Unit II- Microbial genetics</b></p> <p><b>Genetic analysis in Bacteria:Prototrophs, Auxotrophs.</b> (01)</p> <p><b>Genetic Mapping in Bacteria by Conjugation:</b></p> <p><b>Discovery of Conjugation in E.coli. The sex factor F, High-Frequency Recombination Series of E.coli. F' Factors. Using conjugation to map bacterial genes-Interrupted-mating (01)</b></p> <p><b>Genetic mapping in bacteria by Transformation.</b> (01)</p> <p><b>Genetic mapping in Bacteria by Transduction.</b> (01)</p> <p><b>Bacteriophages - Lytic and Lysogenic pathway.</b> (02)</p> <p><b>Transduction Mapping of Bacterial Chromosomes - Generalized Transduction and Specialized Transduction.</b> (02)</p>	10
September	<p><b>Unit III- Population genetics</b></p> <p><b>Genetic Structure of Populations - Genetic structure of populations- Hardy-Weinberg</b></p>	<p><b>Unit 3- Population genetics.</b></p> <p><b>Genetic Structure of Populations - Genetic structure of populations- Hardy-Weinberg</b></p>	09



<p><b>Content:</b></p>	<p>and Allelic Frequencies, (02)  Hardy-Weinberg Law and its Assumptions (01)  Genetic Variations in Populations, Forces responsible for change in gene frequencies in population- Natural Selection, (03)  Genetic Drift, migration, Speciation (04)  Role of Population Genetics in Conservation Biology (01)</p>	<p>and Allelic Frequencies, (02)  Hardy-Weinberg Law and its Assumptions (02)  Genetic Variations in Populations, Forces responsible for change in gene frequencies in population- Natural Selection, (04)  Genetic Drift, migration, Speciation(03)  Role of Population Genetics in Conservation Biology (01)</p>	<p>08</p>
<p>Signature of Coordinator: <i>[Signature]</i></p>	<p>Signature of Subject Teacher: <i>[Signature]</i></p>		



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**DR. S. RADHAKRISHNAN MARG, ANHURDOLI, MUMBAI - 400 069**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Vartak</b>	
<b>Class: FVRSa, Semester-I</b>		<b>Subject: Molecular Biology-I</b> <b>Subject Code: USBT106</b>	
<b>No of lectures Allotted per week/80</b> <b>Semester: 31</b>		<b>No of lectures Covered per</b> <b>Allotted per Semester: 45</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>August</b>	<b>Unit I- DNA COMPOSITION, Chromosomes, DNA structure and packing</b>  <b>The Composition and structure of DNA and RNA;</b>	<b>Unit I - DNA COMPOSITION, Chromosomes, DNA structure and packing</b>  <b>The Composition and structure of DNA and RNA;</b>	<b>11</b>
	<b>Nucleotide and Nucleoside, Structure of nucleosides, Structure of DNA, DNA double helix - Watson and Crick's Model. Structure of RNA. Types of RNA. (04)</b>	<b>Nucleotide and Nucleoside, Structure of nucleosides, Structure of DNA, DNA double helix - Watson and Crick's Model. Structure of RNA. Types of RNA. (04)</b>	



	<p><b>Organization of DNA in chromosomes (10)</b>  <b>Viad and Prokaryotic Chromosomes.</b>  <b>Eukaryotic Chromosomes.</b>  <b>Histone and Non-histone proteins.</b>  <b>Nucleosome Structure.</b>  <b>Packaging of DNA into chromosomes.</b>  <b>Euchromatin and Heterochromatin.</b>  <b>Centromeres and Telomeres</b>  <b>Chromosome Banding Techniques.</b></p> <p><b>Karyotype and Idiogram</b>  <b>Parameters used in Karyotype preparation- Human</b>  <b>Karyotype (Normal) - Male and Female.</b></p>	<p><b>Organization of DNA in chromosomes(10)</b>  <b>Viad and Prokaryotic Chromosomes.</b>  <b>Eukaryotic Chromosomes.</b>  <b>Histone and Non-histone proteins.</b>  <b>Nucleosome Structure.</b>  <b>Packaging of DNA into chromosomes.</b>  <b>Euchromatin and Heterochromatin.</b>  <b>Centromeres and Telomeres</b>  <b>Chromosome Banding Techniques.</b></p> <p><b>Karyotype and Idiogram (11)</b>  <b>Parameters used in Karyotype preparation- Human</b>  <b>Karyotype (Normal) - Male and Female.</b></p>	
<b>September</b>	<p><b>Unit II- II-DNA replication</b>  <b>Models of DNA Replication (11)</b>  <b>DNA Replication in Prokaryotes (12)</b></p> <p><b>Evidence of Semi-conservative DNA replication- Meselson and Stahl's experiment (11)</b></p> <p><b>DNA Polymerase and its role, (11)</b></p>	<p><b>Unit II- II-DNA replication</b>  <b>Models of DNA Replication (11)</b>  <b>DNA Replication in Prokaryotes (12)</b></p> <p><b>Evidence of Semi-conservative DNA replication- Meselson and Stahl's experiment (11)</b></p> <p><b>DNA Polymerase and its role, (11)</b></p>	<b>18</b>



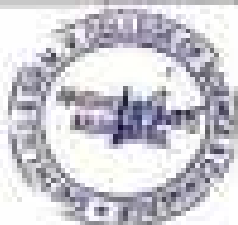
	<p>Local Chromosome Replication (01)</p> <p>semi discontinuous replication (01)</p> <p>Bidirectional Replication of Circular DNA molecules. (01)</p> <p>Rolling Circle Replication. (01)</p> <p>DNA Replication in Eukaryotes (02)</p> <p>Enzymes and proteins involved in DNA replication (01)</p>	<p>Local Chromosome Replication, (01)</p> <p>semi discontinuous replication (01)</p> <p>Bidirectional Replication of Circular DNA molecules</p> <p>Rolling Circle Replication, (01)</p> <p>DNA Replication in Eukaryotes</p> <p>Enzymes and proteins involved in DNA replication (02)</p>	
October	<p>Unit III- Mutation and repair</p> <p>Definition of Mutation- Classification of mutations (01)</p> <p>Types of Point Mutations, (01)</p> <p>Types of Spontaneous and induced mutations (01)</p> <p>Mutagens and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens), (01)</p> <p>DNA REPAIR, Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair (06)</p>	<p>Unit 3 Mutation and repair</p> <p>Definition of Mutation- Classification of mutations (01)</p> <p>Types of Point Mutations, (01)</p> <p>Types of Spontaneous and induced mutations (01)</p> <p>Mutagens and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens), (01)</p> <p>DNA REPAIR, Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair (06)</p>	10
Signature of Coordinator: 		Signature of Subject Teacher: 	



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DR. S. RADHAKRISHNAN MARG, ANHURLI (E), MUMBAI - 400 069**

**Teaching Plan and Implementation Record (TRP-TR)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Ms. Dnyanesh Kapadia</b>	
<b>Class: FYB.Sc. Semester-I</b>		<b>Subject: Ability Enhancement Course- Communication skills Lecture and Presentation</b>	
		<b>Subject Code: USBT107</b>	
<b>No. of lectures Allotted per week: 03</b>		<b>No. of Lectures Covered per Semester: 33 No. of lectures Allotted per Semester: 33</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>August</b>	<p><b>Unit 1: - Academic Skills</b>  <b>Essentials of Grammar: Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks</b>  <b>Employment Communications: Introduction, Resumes, Curriculum Vitae, Interview Resumes, Developing an Impressive Resume, Formats of Resumes, Job Application or Cover Letter, Email Writing</b>  <b>Professional Presentation: Nature of Oral Presentation, planning a Presentation, Preparing for Presentation, Delivering the Presentation</b>  <b>Job Interviews: Introduction, Importance of Resumes, Definition of Interview, Background Information, Types of Interviews, Preparatory Steps for Job Interviews, Interview Skill Tips, Changes in the Interview Process, FAQ During Interviews</b>  <b>Group Discussion: Introduction, Audience/Setting</b></p>	<p><b>Unit 1 - Academic Skills</b>  <b>Essentials of Grammar: Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks</b>  <b>Employment Communications: Introduction, Resumes, Curriculum Vitae, Interview Resumes, Developing an Impressive Resume, Formats of Resumes, Job Application or Cover Letter, Email Writing</b>  <b>Professional Presentation: Nature of Oral Presentation, planning a Presentation, Preparing for Presentation, Delivering the Presentation</b>  <b>Job Interviews: Introduction, Importance of Resumes, Definition of Interview, Background Information, Types of Interviews, Preparatory Steps for Job Interviews, Interview Skill Tips, Changes in the Interview Process, FAQ During Interviews</b>  <b>Group Discussion: Introduction, Audience/Setting</b></p>	<b>10</b>



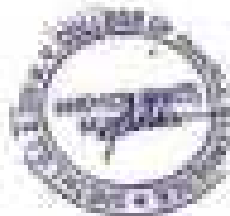
	<p>Arrangement for Group Discussion, Importance of Group Discussion, Difference between Group Discussion, Panel Discussion and Debate, Traits, Types of Group Discussions, topic based and Case based Group Discussion, Individual Traits</p>	<p>Arrangement for Group Discussion, Importance of Group Discussion, Difference between Group Discussion, Panel Discussion and Debate, Traits, Types of Group Discussions, topic based and Case based Group Discussion, Individual Traits</p>	
September	<p><b>Unit II- Soft skills</b></p> <p>Introduction to Soft Skills and Hard Skills  <b>Personality Development:</b> Knowing Yourself, Positive Thinking, Johari's Window, Communication Skills, Non-verbal Communication, Physical Fitness</p>	<p><b>Unit II- Soft skills</b></p> <p>Introduction to Soft Skills and Hard Skills  <b>Personality Development:</b> Knowing Yourself, Positive Thinking, Johari's Window, Communication Skills, Non-verbal Communication, Physical Fitness</p>	04
October	<p><b>Emotional Intelligence:</b> Meaning and Definition, Need for</p> <p><b>Emotional Intelligence,</b> Intelligence Quotient versus Emotional Intelligence Quotient, Components of Emotional</p>	<p><b>Emotional Intelligence:</b> Meaning and Definition, Need for</p> <p><b>Emotional Intelligence,</b> Intelligence Quotient versus Emotional Intelligence Quotient, Components of Emotional</p>	02



<p><b>October</b></p>	<p><b>Intelligence, Comprehension of Functional Intelligence, Skills to Develop Emotional Intelligence</b>  <b>Experts and Masteries: Introduction, Professional Experts, Technology Experts: Communication Today: Significance of Communication, USC's IM Model of Communication, Vitality of the Communication Process, Virtues of Listening, Fundamentals of Good Listening, Nature of Non-Verbal Communication, Need for Intercultural Communication, Communicating Digital World.</b></p>	<p><b>Intelligence, Comprehension of Functional Intelligence, Skills to Develop Emotional Intelligence</b>  <b>Experts and Masteries: Introduction, Professional Experts, Technology Experts: Communication Today: Significance of Communication, USC's IM Model of Communication, Vitality of the Communication Process, Virtues of Listening, Fundamentals of Good Listening, Nature of Non-Verbal Communication, Need for Intercultural Communication, Communicating Digital World.</b></p>	<p><b>06</b></p>
<p><b>October</b></p>	<p><b>Unit III- Professional skills</b>   <b>Creativity at Workplace: Introduction, Career Workplaces, Creativity, Motivation, Nurturing Hobbies at Work, The Six Thinking Hat Method</b>  <b>Ethical Values: Ethics and Society, Theories of Ethics, Correlation between Values and Behavior, Nurturing Ethics, Importance of Work Ethics, Problems in the Absence of Work Ethics</b>  <b>Capacity Building: Need and Importance of Capacity Building Elements of Capacity Building Zones of Learning Ideas for Learning Strategies for Capacity Building</b>  <b>Leadership and Team Building: Leader and Leadership, Leadership Traits, Culture and Leadership, Leadership</b></p>	<p><b>Unit III- Professional skills</b>   <b>Creativity at Workplace: Introduction, Career Workplaces, Creativity, Motivation, Nurturing Hobbies at Work, The Six Thinking Hat Method</b>  <b>Ethical Values: Ethics and Society, Theories of Ethics, Correlation between Values and Behavior, Nurturing Ethics, Importance of Work Ethics, Problems in the Absence of Work Ethics</b>  <b>Capacity Building: Need and Importance of Capacity Building Elements of Capacity Building Zones of Learning Ideas for Learning Strategies for Capacity Building</b>  <b>Leadership and Team Building: Leader and Leadership, Leadership Traits, Culture and Leadership, Leadership Styles and Traits, Team Building, Types of Teams</b></p>	<p><b>09</b></p>



	<p>Style and Trends, Team Building, Types of Teams</p> <p><b>Decision Making and Negotiation:</b> Introduction to Decision Making, Steps for Decision Making, Decision Making Techniques, Negotiation Fundamentals, Negotiation Styles, Major Negotiation Concepts</p> <p><b>Stress and Time Management:</b> Stress, Sources of Stress, Ways to Cope with Stress</p>	<p><b>Decision Making and Negotiation:</b> Introduction to Decision Making, Steps for Decision Making, Decision Making Techniques, Negotiation Fundamentals, Negotiation Styles, Major Negotiation Concepts</p> <p><b>Stress and Time Management:</b> Stress, Sources of Stress, Ways to Cope with Stress</p>	
<p>Signature of Coordinator: <i>[Signature]</i></p>	<p>Signature of Subject Teacher: <i>[Signature]</i></p>		



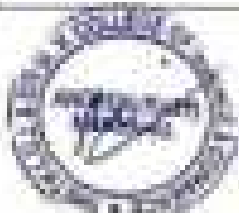
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**DR. S. RAHLAKHSHIAN MARSI, ANDHRI (2), MUMBAI - 400 009**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Vartak</b>	
<b>Class: FYB.Sc. Semester-II</b>		<b>Subject: Fundamentals of</b>	
<b>Biotechnology-2</b>		<b>Subject Code: UNDT201</b>	
<b>No of lectures Allotted per week: 02</b>		<b>No of lectures Covered per</b>	
<b>Semester: 48</b>		<b>No of lectures Allotted per Semester: 48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>December</b>	<b>Unit 1-Food Biotechnology</b> Introduction to food biotechnology, History of	<b>Unit 1-Food Biotechnology</b>	<b>01</b>



<p>January</p>	<p>microorganisms in food science and key developments (02)          Applications of biotechnology in fermented food products - Introduction to Unit Operations and Processes, Food processing &amp; packaging (canning &amp; bottling), Production of culture Fermented food products - Bread, Vinegar, Sauerkraut, Single Cell Protein (SCP),</p> <p>Probiotics (04)          Food spoilage, food deterioration and contamination (01), Methods of food preservation          Indicators of Food Microbial Quality &amp; Safety, HACCP, FSSAI &amp; FDA (02)</p>	<p>Introduction to food biotechnology, History of microorganisms in food science and key developments(02)          Applications of biotechnology in fermented food products - Introduction to Unit Operations and Processes, (02) Food processing &amp; packaging (canning &amp; bottling), Production of culture (02)          Fermented food products - Bread, Vinegar, Sauerkraut, Single Cell Protein (SCP), (01)</p> <p>Probiotics (01)          Food spoilage, food deterioration and contamination (01)          Methods of food preservation (01)          Indicators of Food Microbial Quality &amp; Safety, HACCP, FSSAI &amp; FDA (02)</p>	<p>05</p>
<p>January</p>	<p>Unit II Medical Biotechnology</p> <p>Introduction to Medical Biotechnology (01)          Vaccines          Types of vaccine          General vaccine production(01)          Large scale production of vaccine (03)          Trends in Vaccine Research Issues related to vaccine research (01)</p>	<p>Unit II Medical biotechnology</p> <p>Introduction to Medical Biotechnology (01)          Vaccines          Types of vaccine          General vaccine production (01)          Large scale production of vaccine          Trends in Vaccine Research(02)</p>	<p>04</p>



February	<p>Synthetic peptides as vaccine  Antibody Production (01)  Gene therapy (01)  Organ transplant cloning (01)  Stem-cells -Sources and applications (01)</p>	<p>Issues related to vaccine research  Synthetic peptides as vaccine  Antibody Production (04)  Gene therapy (03)  Organ transplant cloning (02)  Stem-cells -Sources and applications (02)</p>	18
February-March	<p><b>Unit III-Genetic engineering</b>  rDNA technology – definition and developments  What is genetic engineering?  What is gene cloning?  Strategy for cloning – How to clone a gene? How to construct rDNA?  Source DNA [insert] Isolation of DNA from bacterial cell (04)  Enzymes in rDNA –  1. restriction endonuclease;  2. DNA ligase;  . Enzymes to modify ends of DNA molecules –  exonuclease; endonuclease; S<sub>1</sub> nuclease;  alkaline phosphatase;  polynucleotide kinase;  DNA polymerase and kinase fragment; reverse transcriptase; terminal deoxynucleotidyl transferase (02)  Vectors – Role as agents of transfer  Features of plasmid vectors  Plasmid vectors - pBR322  pUC  BAC(02)</p>	<p><b>Unit III-Genetic engineering</b>  rDNA technology – definition and developments  What is genetic engineering?  What is gene cloning?  Strategy for cloning – How to clone a gene? How to construct rDNA?  Source DNA [insert] Isolation of DNA from bacterial cell (04)  Enzymes in rDNA –  1. restriction endonuclease;  2. DNA ligase;  . Enzymes to modify ends of DNA molecules –  exonuclease; endonuclease; S<sub>1</sub> nuclease;  alkaline phosphatase;  polynucleotide kinase;  DNA polymerase and kinase fragment; reverse transcriptase; terminal deoxynucleotidyl transferase (02)</p>	14



	<p>Plant virus vectors and Animal virus vectors (02)</p> <p>Shuttle vector; Expression vector (02)</p> <p>Host cells – E. coli; Bacillus subtilis;</p> <p>Saccharomyces cerevisiae;</p> <p>Xenopus oocytes;</p> <p>Mammalian fertilised egg cell (01)</p> <p>Introducing vector into host – Prokaryote, Eukaryote</p> <p>Identification of recombinant clones (01)</p>	<p>Vectors – Both as agents of transfer</p> <p>Features of plasmid vectors</p> <p>Plasmid vectors – pUC122</p> <p>pUC</p> <p>HAC (02)</p> <p>Plant virus vectors and Animal virus vectors (01)</p> <p>Shuttle vector;</p> <p>Expression vector</p> <p>Host cells – E. coli; Bacillus subtilis;</p> <p>Saccharomyces cerevisiae; Xenopus oocytes;</p> <p>Mammalian fertilised egg cell (01)</p> <p>Introducing vector into host – Prokaryote, Eukaryote</p> <p>Identification of recombinant clones (02)</p>	
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Signature of Coordinator: *S. Winda*

Signature of Subject Teacher: *Pratibha*

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**Teaching Plan and Implementation Record (2013-14)**

Department	Biotechnology
Name of teacher	Mrs. Sneha Khasale, Ms. Priya Vishwakarma
Class: FVBA; Semester-II Subject: Cell Biology and Microbiology-2 Subject Code: USBT202	

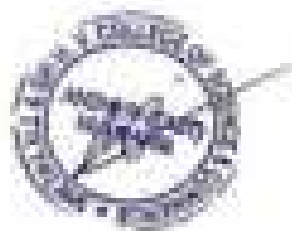


No. of lectures Allotted per week: 03. No. of lectures Covered per Semester: 34.  
No. of lectures Allotted per Semester: 45.

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
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<p>February</p>	<p><b>Unit 1-Ultrastructure of prokaryotic and eukaryotic cell.</b></p> <p><b>Ultrastructure of Prokaryotic Cell:</b>          Concepts of Cell shape, size and arrangement (01)          Bacterial structures external to cell wall - Flagella, Pili, Fimbriae, Capsule, Slime Layer, Spores (02)</p> <p><b>Cell Wall(Gram Positive and Negative):</b>          Structures internal to cell wall - Cell Membrane, nucleoid, Cytoplasm and cytoplasmic inclusion bodies and vacuoles, Genetic Material spores and cysts (03)</p> <p><b>Ultrastructure of Eukaryotic Cell:</b>          Cell wall, Plasma membrane, Cytoplasmic Matrix, Nucleus - Nuclear Structure, nuclear envelope, nucleoplasm, Nucleolus, cytoplasmic structure - cytoplasmic inclusion, cytoplasmic organelles - Endoplasmic Reticulum, Golgi Apparatus; (04)</p> <p><b>Mitochondria, Chloroplasts; Ribosomes; Lysosomes - Endocytosis, Phagocytosis, Autophagy; Peroxisomes, Microfilaments, Intermediate Filaments, and Microtubules (02)</b></p>	<p><b>Unit 1 - Ultrastructure of prokaryotic and eukaryotic cell.</b></p> <p><b>Ultrastructure of Prokaryotic Cell:</b>          Concepts of Cell shape, size and arrangement (01)          Bacterial structures external to cell wall - Flagella, Pili, Fimbriae, Capsule, Slime Layer, Spores (02)</p> <p><b>Cell Wall(Gram Positive and Negative):</b>          Structures internal to cell wall - Cell Membrane, nucleoid, Cytoplasm and cytoplasmic inclusion bodies and vacuoles, Genetic Material spores and cysts (03)</p> <p><b>Ultrastructure of Eukaryotic Cell:</b>          Cell wall: Plasma membrane, Cytoplasmic Matrix, Nucleus - Nuclear Structure, nuclear envelope, nucleoplasm, Nucleolus, cytoplasmic structure - cytoplasmic inclusion, cytoplasmic organelles - Endoplasmic Reticulum, Golgi Apparatus; (04)</p> <p><b>Mitochondria; Chloroplasts; Ribosomes; Lysosomes -</b></p>
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	External Cell Coverings: Cilia And Flagella Comparison of Prokaryotic And Eukaryotic Cells (10)	Endocytosis, Phagocytosis, Autophagy, Pinocytosis, Microfilaments, Intermediate Filaments, and Microtubules (8)	
December- January	<b>Unit II Microbiology</b>  Definition of Growth Mathematical and expression of growth Growth curve Measurement of growth Efficiency of growth yield Synchronous growth Effect of nutrient on growth rate Continuous Culture of microorganisms Chemostat and Turbidostat Enumeration of Microorganisms- Direct and Indirect Methods Preservation and Maintenance of cultures	<b>Unit 2: Microbiology</b>  Definition of Growth Mathematical and expression of growth Growth curve (2) Measurement of growth Efficiency of growth yield Synchronous growth Effect of nutrient on growth rate (2) Continuous Culture of microorganisms Chemostat and Turbidostat Enumeration of Microorganisms- Direct and Indirect Methods (2) Preservation and Maintenance of cultures (2)	11
February	<b>Unit III Virology</b>  Historical perspective Special cases- TMV and Influenza	<b>Unit III Virology</b>  Historical perspective Special cases- TMV and Influenza(2)	12



March	<p><b>General Characteristics of Viruses</b>  <b>Host Range</b>  <b>Viral Structure- Nucleic Acid, Capsid and Envelope</b>  <b>General Morphology- Helical, Polyhedral, Enveloped, Complex.</b>  <b>Taxonomy of Viruses</b>  <b>Viral Multiplication -</b>  <b>Multiplication of Bacteriophages and Animal Viruses</b>  <b>Isolation, Cultivation, and Identification of Viruses -</b>  <b>Growing Bacteriophages and animal viruses in the Laboratory</b>  <b>Viral Identification</b></p>	<p><b>General Characteristics of Viruses</b>  <b>Host Range (2)</b>  <b>Viral Structure- Nucleic Acid, Capsid and Envelope</b>  <b>General Morphology- Helical, Polyhedral, Enveloped, Complex.</b>  <b>Taxonomy of Viruses (1)</b>  <b>Viral Multiplication -</b>  <b>Multiplication of Bacteriophages and Animal Viruses</b>  <b>Isolation, Cultivation, and Identification of Viruses -</b>  <b>Growing Bacteriophages and animal viruses in the Laboratory (1)</b>  <b>Viral Identification (1)</b></p>	11
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Signature of Coordinator:

Signature of Subject Teacher:

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**Teaching Plan and Implementation Record (2023-24)**

Department	Microbiology		
Name of teacher	Ms. Divyani Kapadia		
Class: FYB.Sc. Semester-II Subject: Basic Chemistry-2	Subject Code: USBT203		
No of lectures Allotted per week: 03	No of lectures Covered per Semester: 38		
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic



<p><b>December</b></p>	<p><b>Unit I-Thermodynamics</b>          Thermodynamics: System, Surrounding, Boundary Sign Conventions, State Functions, Internal Energy and Enthalpy: Significance, examples, (Numericals expected.)          Laws of Thermodynamics and its Limitations          Mathematical expression, Qualitative discussion of Carnot Cycle for ideal Gas and Mechanical Efficiency.</p>	<p><b>Unit I-</b>  <b>Thermodynamics</b>          Thermodynamics: System, Surrounding, Boundary Sign Conventions, State Functions, Internal Energy and Enthalpy: Significance, examples, (Numericals expected.)          Laws of Thermodynamics and its Limitations          Mathematical expression, Qualitative discussion of Carnot Cycle for ideal Gas and Mechanical Efficiency.</p>	<p>07</p>
<p><b>January</b></p>	<p>Laws of Thermodynamics as applied to Biochemical Systems.          Concept of Entropy, Entropy for Isobaric, Isochoric and Isothermal Processes.</p>	<p>Laws of Thermodynamics as applied to Biochemical Systems.          Concept of Entropy, Entropy for Isobaric, Isochoric and Isothermal Processes.</p>	<p>01</p>
<p><b>January</b></p>	<p><b>Unit II-Chemical Kinetics</b>           Reaction Kinetics: Rate of Reaction, Rate Constant, Measurement of Reaction Rates Order &amp; Molecularity of Reaction, Integrated Rate Equation of First and Second order reactions (with equal initial concentration of reactants) (Numericals expected)          Determination of Order of Reaction          a) Integration Method          b) Graphical Method          c) Ostwald's Dilution Method</p>	<p><b>Unit II-Chemical Kinetics</b>           Reaction Kinetics: Rate of Reaction, Rate Constant, Measurement of Reaction Rates Order &amp; Molecularity of Reaction, Integrated Rate Equation of First and Second order reactions (with equal initial concentration of reactants) (Numericals expected)          Determination of Order of Reaction</p>	<p>08</p>



February	d) Half Time Method. (Numericals expected).	c) Longevity Method by Graphical Method e) Ostwald's Isolation Method. d) Half Time Method. (Numericals expected).	10
February - March	Unit III Oxidation Reduction reactions  Principles of Oxidation & Reduction Reactions Oxidizing and Reducing Agents Oxidation Number, Rules to assign Oxidation Numbers with examples from Iodo Oxidate, Permanganate and Dichromate. Balancing Redox Reaction by Ion Electron Method Oxidation, Reduction, Addition and Substitution & Elimination Reaction.	Unit III Oxidation Reduction reactions  Principles of Oxidation & Reduction Reactions Oxidizing and Reducing Agents Oxidation Number, Rules to assign Oxidation Numbers with examples from Iodo Oxide, Permanganate and Dichromate. Balancing Redox Reaction by Ion- Electron Method Oxidation, Reduction, Addition and Substitution & Elimination Reaction.	10
Signature of Coordinator: 		Signature of Subject Teacher: 	

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Teaching Plan and Implementation Record (2023-24)

Department	Biochemistry
Name of teacher	Dayanada Ghosh
Class: FYB.Sc. Semester-II analytical techniques.	Subject: Biochemistry (Concept of Biomolecules-I and Subject Code: NBT204



No. of lectures Allotted per week: 03 per Semester: 37		No. of lectures Covered No. of lectures Allotted per Semester: 45	
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	Unit 1-Proteins and amino acids Amino acids: General introduction, Classification and structures, properties (physical & chemical) (01) Amino Acids as drugs Titration Curve of Amino Acids. Concept of isoelectric pH, Zwitterion (02) Reactions of Amino Acids: Sommer's Titration, Nitrohydra Test (3) Protein: Introduction, definition and functional classification. Classification of Proteins: Simple- Fibrous and Globular Conjugated- Nucleoprotein, Lipoprotein, Glycoprotein, Phosphoprotein, Chromoprotein, Metaloprotein (01) Derived- Primary and Secondary Peptide bond- Features Example of Dipeptide, tripeptide .... Neuropeptide EG	Unit 1-Proteins and amino acids Amino acids: General introduction, Classification and structures, properties (physical & chemical) (01) Amino Acids as drugs. Titration Curve of Amino Acids. Concept of isoelectric pH, Zwitterion (02) Reactions of Amino Acids: Sommer's Titration, Nitrohydra Introduction, definition and functional classification. Classification of Proteins: Simple- Fibrous and Globular Conjugated- Nucleoprotein, Lipoprotein, Glycoprotein, Phosphoprotein, Chromoprotein, Metaloprotein (01) Derived- Primary and Secondary Peptide bond- Features Example of Dipeptide, tripeptide .... Neuropeptide EG	08
January	Oxytocin, Vasopressin (03) Amino acid composition of Bovine Cytocrome C and Bovine Chymotrypsinogen (01) Three dimensional Structure of	Oxytocin, Vasopressin (03) Amino acid composition of Bovine Cytocrome C and Bovine Chymotrypsinogen (01) Three dimensional structure of proteins: Concept of Monomeric, dimeric and multimeric proteins Primary structure - Peptide linkage, Native Secondary structure - Alpha Helm and Beta sheet, Spatial	03



	<p>proton;</p>	<p>relationships of adjacent carbon and oxygen Tertiary structure - Three Chemical environments</p>	
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	<p>Concept of Monomeric, dimeric and multimeric proteins</p> <p>Primary structure - Peptide linkage, Native</p> <p>Secondary structure - Alpha Plot and Beta fold; Spatial arrangement of adjacent amino acid residues</p> <p>Tertiary structure - Three Dimensional arrangement</p> <p>Quaternary structure Di and Multimeric proteins (B3)</p> <p>EG: structure of human Insulin</p> <p>Properties of proteins: Solubility, Molecular weight, Shape, Iso electric pH, Solting out of proteins for purification (B1)</p> <p>Protein Denaturation and folding: Denaturing agents and properties of denatured proteins (B2)</p>	<p>Quaternary structure Di and Multimeric proteins (B2)</p> <p>EG: structure of human Insulin</p> <p>Properties of proteins: Solubility, Molecular weight, Shape, Iso electric pH, Solting out of proteins for purification (B1)</p> <p>Protein Denaturation and folding: Denaturing agents and properties of denatured proteins (B1)</p>	
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January	<p><b>Unit II-Enzymes</b>  <b>Introduction to Biocatalysis</b>  <b>Properties of Enzymes</b>  <b>Substrate, Optimum conditions, Cofactors, Coenzyme, Cofactors</b>  <b>Classification and Nomenclature ( one reaction per class)</b></p>	<p><b>Unit II-Enzymes</b>  <b>Introduction to Biocatalysis</b>  <b>Properties of Enzymes</b>  <b>Substrate, Optimum conditions, Cofactors, Coenzyme, Cofactors (2)</b>  <b>Classification and Nomenclature ( one reaction per class)</b>  <b>Mechanism of Enzyme Action, Active Site, Enzyme Specificity, (1)</b></p>	03
February	<p><b>Mechanism of Enzyme Action, Active sites, Enzyme Specificity,</b>  <b>Factors affecting enzyme activity (Effect of pH, Temperature, Substrate Concentration, Enzyme concentration)</b></p> <p><b>Enzyme Kinetics: Derivation of Michaelis-Menten Equation,</b>  <b>Lineweaver-Burk plot, Concept of Km</b>  <b>Types of Enzyme Inhibitors - Irreversible &amp; Reversible (Competitive, Uncompetitive, Non-Competitive)</b>  <b>Isoenzymes ( LDH, Alkaline Phosphatase, Creatine Phosphokinase )</b>  <b>Allosteric Modulators, Co-Factors, Zymogens, Enzyme units</b>  <b>Enzymes as Biomarkers and diagnostic tools ( SGPT, SGOT, LDH, CPK)</b>  <b>Industrial Applications of Enzymes</b></p>	<p><b>Factors affecting enzyme activity</b>  <b>Effect of pH,</b>  <b>Temperature, Substrate Concentration, Enzyme concentration (2)</b></p> <p><b>Enzyme Kinetics: Derivation of Michaelis-Menten Equation, (2)</b>  <b>Lineweaver-Burk plot, Concept of Km</b>  <b>Types of Enzyme Inhibitors - Irreversible &amp; Reversible (Competitive, Uncompetitive, Non-Competitive) (3)</b>  <b>Isoenzymes ( LDH, Alkaline Phosphatase, Creatine Phosphokinase )</b>  <b>Allosteric Modulators, Co-Factors, Zymogens, Enzyme units (3)</b>  <b>Enzymes as Biomarkers and diagnostic tools ( SGPT, SGOT, LDH, CPK)</b>  <b>Industrial Applications of Enzymes (3)</b></p>	13
February	<p><b>Unit III- Basics of Analytical techniques</b>  <b>Methods of Separation: Precipitation, Filtration, Distillation and Solvent Extraction (10)</b></p>	<p><b>Unit III- Basics of Analytical techniques</b>  <b>Methods of Separation, Precipitation, Filtration, Distillation and Solvent Extraction (10)</b></p>	08



<p>March</p>	<p>Analytical Techniques Chromatography: Definition, Principles, Chromatographic performance parameters. Thin Layer Chromatography, Thin Layer Chromatography, Column Chromatography (Principle and Applications) (03) Spectroscopy - Colorimetry (02) Properties of electromagnetic radiation, interaction with matter, lasers (02) Colorimetric assays - Principle, Beer-Lambert's Law, Measurement of Extinction, Derivation of <math>E = \epsilon cl</math>, Limitations of Beer-Lambert's Law, Filter Selection Examples of colorimetric and UV absorption assays (01) Electrophoresis: General principles, Factors affecting electrophoresis, Types of support media used, Types of electrophoresis (Agarose gel electrophoresis, PAGE) (03)</p>	<p>Analytical Techniques Chromatography: Definition, Principles, Chromatographic performance parameters, Thin Layer Chromatography, Thin Layer Chromatography, Column Chromatography (Principle and Applications) (03) Spectroscopy - Colorimetry: Properties of electromagnetic radiation, interaction with matter, lasers (02) Colorimetric assays - Principle, Beer-Lambert's Law, Measurement of Extinction, Derivation of <math>E = \epsilon cl</math>, Limitations of Beer-Lambert's Law, Filter Selection Examples of colorimetric and UV absorption assays (02) Electrophoresis: General principles, Factors affecting electrophoresis, Types of support media used, Types of electrophoresis (Agarose gel electrophoresis, PAGE) (02)</p>	<p>04</p>
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*Abhinav*

*Shikha*

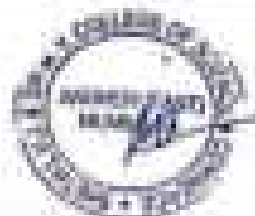
<p>LAXMI CHARITABLE TRUST'S SIBTH L.U.J. &amp; SRM V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE DR. S. RADHAKRISHNAN MARIL ANDEHERI (T), MUMBAI - 400 069</p>	
<p>Teaching Plan and Implementation Record (2023-24)</p>	
Department	Biochemistry
Name of teacher	Dr. Ananda Ghosh, Shreyas Khatke, Dr. Priyanka Yastak



Class: FYBSc, Semester-II Subject: Physiology and Immunology			
Subject Code: USHT205			
No of lectures Allotted per week: 01		No of lectures Covered per	
Semester: 30		No of lectures Allotted per Semester:	
45			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	Unit I-Plant Physiology Photosynthesis (01) Hill's Reaction and its Significance, (01) Light Reactions, Cyclic and Non-Cyclic Photo- induced Electron Flow, Energetics of Photosynthesis, (03)	Unit I-Plant Physiology Photosynthesis (01) Hill's Reaction and its Significance, (01) Light Reactions, Cyclic and Non-Cyclic Photo- induced Electron Flow, Energetics of Photosynthesis, (03)	11



<p>February</p>	<p><b>Unit I-Plant Physiology</b></p> <p>Dark Phase of Photosynthesis, Calvin Cycle, C-3 (02) C-4, CAM pathways , Rubisco oxygenase activity (01)</p> <p>Plant hormones : Auxin, Gibberellins, (01) Cytokinin, Ethylene, Abscisic acid (01)</p> <p>Introduction to Secondary Metabolites (01)</p> <p><b>Unit II-Animal Physiology</b></p> <p>Introduction to physiology Concept of homeostasis. (01)</p> <p>Body fluids- Major types of Body fluid, Blood – Functions of blood, general properties of blood, Composition of blood, Thrombocytes or Platelets, Coagulation of blood, Thrombus of Coagulation, Haemolysis.(2)</p> <p>Respiratory system: Phases of Respiration, Principle of gas exchange, Mechanism of breathing. (01)</p> <p>Digestion and absorption – Mode of nutrition, Digestion: Digestion of foodstuffs, Digestion in humans. Absorption. (02)</p> <p>Excretion – Organs of excretion, Types of excretory products.</p>	<p><b>Unit I-Plant Physiology</b></p> <p>Dark Phase of Photosynthesis, Calvin Cycle, C-3 (02) C-4, CAM pathways , Rubisco oxygenase activity (01)</p> <p>Plant hormones : Auxin, Gibberellins, (01) Cytokinin, Ethylene, Abscisic acid (01)</p> <p>Introduction to Secondary Metabolites (01)</p> <p><b>Unit II-Animal Physiology</b></p> <p>Introduction to physiology Concept of homeostasis. Body fluids- Major types of Body fluid, Blood – Functions of blood, general properties of blood, Composition of blood, Thrombocytes or Platelets, Coagulation of blood, Thrombus of Coagulation, Haemolysis. Respiratory system: Phases of Respiration, Principle of gas exchange, Mechanism of breathing Digestion and absorption – Mode of nutrition, Digestion: Digestion of foodstuffs, Digestion in humans. Absorption. Excretion – Organs of excretion, Types of excretory</p>	<p>13</p>
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<p>February- March</p>	<p>Excretion device in vertebrates (Harrison) (82) Kidney - Structure of kidney, Structure of nephron, Function of kidney, Urine formation, Dialysis (81)</p>	<p>products. Excretion device in vertebrates (Harrison) Kidney - Structure of kidney, Structure of nephron, Function of kidney, Urine formation, Dialysis.</p>	<p>10</p>
	<p><b>Unit III-Immunology</b> Introduction to Immunology: Overview of Immune Systems, (2) Innate Immunity, Mechanisms of innate immunity, Acquired Immunity, Local and Herd Immunity, (3) Humoral and Cellular Immunity - Factors Influencing and Mechanisms of each. (6) Antigen: Immunogenicity Versus Antigenicity, Factors That Influence Immunogenicity, Epitopes, Haptens, Superantigens (3) Antibodies: Basic Structure of Antibodies, Antibody- Mediated Effector Functions, Antibody Classes and Biological Activities, (5) Antigenic Determinants on Immunoglobulins. (1)</p>	<p><b>Unit III - Immunology</b> Introduction to Immunology: Overview of Immune Systems Innate Immunity, Mechanisms of innate immunity, Acquired Immunity, Local and Herd Immunity, Humoral and Cellular Immunity - Factors Influencing and Mechanisms of each Immunogenicity Versus Antigenicity, Factors That Influence Immunogenicity, Epitopes, Haptens, Superantigens Antibodies: Basic Structure of Antibodies, Antibody-Mediated Effector Functions, Antibody Classes and Biological Activities, Antigenic Determinants on immunoglobulins</p>	



Signature of Coordinator: <i>ASWinda</i>	Signature of Subject Teacher: <i>[Signature]</i>
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**DR. K. RADHAKRISHNAN MARG, ANDHRAI (II), MUMBAI - 400 089**

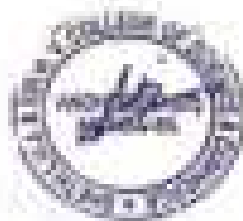
**Teaching Plan and Implementation Record (2023-24)**

Department	Biotechnology
Name of teacher	Shweta Khopde, Dnyanada Ghazi, Diwani Kapadia
Class: FYB.Sc., Semester-II	Subject: Basic Computers and Biostatistics Subject Code: USBT206
No of lectures Allotted per week: 03 No of lectures Covered per Semester: 30 No of lectures Allotted per Semester: 45	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
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<p>January-</p>	<p><b>Unit 1-Introduction to computers</b>  Introduction to computers: Overview and functions of a computer system, Input and output devices, Storage devices.(02)</p> <p><b>Modern computers: The workstation, The Minicomputer, Mainframe Computers, Parallel processing Computer &amp; The Super Computer (01)</b></p> <p><b>Introduction to operating systems: Operating System: concept, Windows, Unix/Linux &amp; servers(1)</b>  <b>Word Processing - Basic Operations, Creating and Editing documents, Formatting documents. (02)</b>  <b>Spreadsheets - Creating and editing worksheets, Organizing and formatting worksheets; Data analysis and management; Using formulas and functions (02)</b></p> <p><b>Presentation Graphics - Creating and Editing Presentations, Designing and Enhancing Presentations, Delivering Presentation, Advanced Presentation Graphics. (02)</b></p>	<p><b>Unit 1-Introduction to computers</b>  Introduction to computers: Overview and functions of a computer system, Input and output devices, Storage devices.(02)</p> <p><b>Modern computers: The workstation, The Minicomputer, Mainframe Computers, Parallel processing Computer &amp; The Super Computer (01)</b></p> <p><b>Introduction to operating systems: Operating System concept, Windows, Unix/Linux &amp; servers (01)</b>  <b>Word Processing - Basic Operations, Creating and Editing documents, Formatting documents. (02)</b>  <b>Spreadsheets - Creating and editing worksheets, Organizing and formatting worksheets; Data analysis and management; Using formulas and functions (02)</b></p> <p><b>Presentation Graphics - Creating and Editing Presentations, Designing and Enhancing Presentations, Delivering Presentation, Advanced Presentation Graphics. (02)</b></p>	<p>10</p>
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<p>March</p>	<p><b>Unit II-Computer networking</b>  <b>Introduction to networking:</b>  various terminologies  Associated hardware devices,  protocols (Router, Switch)  tools, services, and resources (02)  <b>Network Topologies and Protocols, LAN, WAN and MAN</b>  <b>World Wide Web (WWW)(01)</b>  <b>Network security: fire walls (01)</b>  <b>Computer viruses: An overview of Computer viruses: What is a virus? Virus signs, how do they get transmitted? What are the dangers? General Preventions (01)</b>  <b>The Internet and Internet Services-Introduction, History of Internet, Internetworking Protocol(01), The Internet Architecture, Managing the Internet, Connecting to Internet, Internet Connections: Dial-up Access, Leased Line, Integrated Services Digital Network (ISDN), Digital Subscriber Line (DSL), Cable, Modem(02)</b>  <b>Internet Address</b>  <b>Internet Services: World Wide Web (WWW), Web Browser, Uniform Resource Locator (URL)</b>  <b>Internet Search Engines</b>  <b>WWW Development Languages</b></p>	<p><b>Unit II-Computer networking</b>  <b>Introduction to networking:</b> various terminologies  Associated hardware devices,  protocols (Router, Switch)  tools, services, and resources (02)  <b>Network Topologies and Protocols, LAN, WAN and MAN</b>  <b>World Wide Web (WWW) (01)</b>  <b>Network security: fire walls (01)</b>  <b>Computer viruses: An overview of Computer viruses: What is a virus? Virus signs, how do they get transmitted? What are the dangers? General Preventions (01)</b>  <b>The Internet and Internet Services-Introduction, History of Internet, Internetworking Protocol(01) The Internet Architecture, Managing the Internet, Connecting to Internet, Internet Connections: Dial-up Access, Leased Line, Integrated Services Digital Network (ISDN), Digital Subscriber Line (DSL), Cable, Modem (02)</b>  <b>Internet Address</b>  <b>Internet Services: World Wide Web (WWW), Web Browser, Uniform Resource Locator (URL)</b>  <b>Internet Search Engines</b>  <b>WWW Development Languages</b>  <b>Electronic Mail: E-mail Address, Email Message Format, Email Services, How E-mail Works (01)</b>  <b>File Transfer Protocol (FTP), How FTP Works, Terminal Network (Telnet), News, Internet Relay Chat (IRC) Uses of Internet (01)</b></p>	<p>10</p>
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	<p>Electronic Mail, Local Address, E-mail Message Format,          E-mail Services, Hot E-mail Works (H1)          File Transfer Protocol (FTP), Hot FTP Works, Terminal Network (Telnet), News, Internet Relay Chat (IRC)          Uses of Internet (H1)</p>		
<p>Febr          uary</p>	<p><b>Unit III Bio-statistics</b>          Definition &amp; Importance of Statistics in Biology          Variables, Types of variables (Quantitative &amp; Qualitative)          Data, sources of data, Types of data (Quantitative &amp; Qualitative), Representation of Data and Graphs (Bar Diagrams, Pie Charts and Frequency distribution, Histogram, Polygon and Curve)          Population and Sample, Significance of using samples- Sample size, Random variation, Sampling techniques (Simple random sampling, Systematic sampling, Stratified sampling, Cluster sampling, Multistage sampling) and Nonprobability sampling          Types of Statistics (Descriptive &amp; Inferential) - only introduction          Descriptive statistics          Measures of central tendency - Mean, Mode, Median          Ungrouped &amp; Grouped data          Measures of dispersion - Range, Variance, Standard</p>	<p><b>Unit III Bio-statistics</b>          Definition &amp; Importance of Statistics in Biology          Variables, Types of variables (Quantitative &amp; Qualitative)          Data, sources of data, Types of data (Quantitative &amp; Qualitative), Representation of Data and Graphs (Bar Diagrams, Pie Charts and Frequency distribution, Histogram, Polygon and Curve)          Population and Sample, Significance of using samples- Sample size, Random variation, Sampling techniques (Simple random sampling, Systematic sampling, Stratified sampling, Cluster sampling, Multistage sampling) and Nonprobability sampling          Types of Statistics (Descriptive &amp; Inferential) - only introduction          Descriptive statistics          Measures of central tendency - Mean, Mode, Median          Ungrouped &amp; Grouped data          Measures of dispersion - Range, Variance, Standard</p>	<p>10</p>



	deviation (Ungrouped & Grouped data), Coefficient of variation Measures of location - Percentiles, Interquartile range (Box-Whisker plot) Normal/Gaussian distribution, Standard normal deviate, Sampling variation, Standard error of mean	deviation (Ungrouped & Grouped data), Coefficient of variation Measures of location - Percentiles, Interquartile range (Box-Whisker plot) Normal/Gaussian distribution, Standard normal deviate, Sampling variation, Standard error of mean	
Signature of Coordinator: 	Signature of Subject Teacher: 		



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**DR. S. RAJIAKUMARAN MARG, ANDHERI (E), MUMBAI - 400 059**

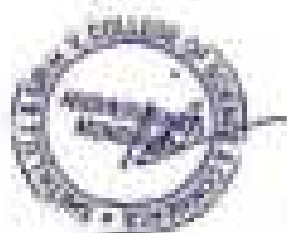
**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Bio-Technology</b>	
<b>Name of teacher</b>		<b>Bhavani Kapadia</b>	
<b>Class: FYB.Sc. Semester-II Subject: Ability Enhancement Course- Sustainable development and Environmental Bio-Technology Lectures and Presentations</b>			
<b>Subject Code: USBT207</b>			
<b>No of lectures Allotted per week: 03</b>		<b>No of lectures Covered per Semester: 30</b>	
		<b>No of lectures Allotted per Semester: 45</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>



2

<p><b>January</b></p>	<p><b>Unit I-Ecology &amp; Interactions-</b>          Concept of Ecosystems,          Definition and Components-          Structure and function of          ecosystem aspects of          ecosystems.          Food Chain and Food Web,          Ecological Pyramids          (Energy, Biomass and Number)          Aquatic and Terrestrial          Ecosystems ,          Nutrient Cycle and          Biogeochemical Cycles: Water,          Carbon, Oxygen, Nitrogen and          Sulphur.          different Abiotic Factors of          ecosystem and adaptations to          different abiotic factors          Interactions- Commensalism,          Mutualism, Predation and          Amensalism, Parasitism,          competition          Biodiversity and its          conservation:          Introduction - definition:          genetic, species, ecosystem          diversity, biogeographic          classification of India, value of          biodiversity, biodiversity at          global, national and local levels,          India as a mega diversity nation,          Hotspots of biodiversity,          threats to biodiversity,          conservation of biodiversity</p>	<p><b>Unit I-Ecology &amp; Interactions</b>          Concept of Ecosystems,          Definition and          Components-          Structure and function of          ecosystem aspects of          ecosystems          Food Chain and Food Web,          Ecological Pyramids          (Energy, Biomass and          Number)          Aquatic and Terrestrial          Ecosystems ,          Nutrient Cycle and          Biogeochemical Cycles:          Water,          Carbon, Oxygen, Nitrogen          and Sulphur.          different Abiotic Factors of          ecosystem and adaptations to          different abiotic factors          Interactions-          Commensalism, Mutualism,          Predation and          Amensalism, Parasitism,          competition          Biodiversity and its          conservation:          Introduction - definition:          genetic, species, ecosystem          diversity, biogeographic          classification of India, value          of          biodiversity, biodiversity at          global, national and local          levels,          India as a mega diversity          nation, Hotspots of          biodiversity,          threats to biodiversity,          conservation of biodiversity</p>	<p>19</p>
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<p><b>February</b></p>	<p><b>Unit II-Pollution and climate change</b>  <b>Environmental Pollution</b>          Definition, Cause, effects and control measures of :-          Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards          Role of an individual in prevention of pollution.          Pollution case studies.          Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and hazards. Case Studies.          Sustainable development-Concept, basic principles of sustainable development, post-bronchial world, roots of sustainability.          Indicators, paradigm towards new discipline-sustainability sciences.</p>	<p><b>Unit II-Pollution and climate change</b>  <b>Environmental Pollution</b>          Definition, Cause, effects and control measures of :-          Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards          Role of an individual in prevention of pollution.          Pollution case studies.          Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and hazards. Case Studies.          Sustainable development-Concept, basic principles of sustainable development, post-bronchial world, roots of sustainability.          Indicators, paradigm towards new discipline-sustainability sciences.</p>	<p>10</p>
<p><b>March</b></p>	<p><b>Unit III-Renewable sources of energy</b>  <b>Introduction: Renewable and Non-renewable resources.</b>  <b>The need for a sustainable lifestyle.</b>  <b>Energy resources: Types of energy</b>          Non-renewable energy - Oil, coal and its environmental impacts.          Renewable energy - Hydroelectric power, solar energy.</p>	<p><b>Unit III-Renewable sources of energy</b>  <b>Introduction: Renewable and Non-renewable resources.</b>  <b>The need for a sustainable lifestyle.</b>  <b>Energy resources: Types of energy</b>          Non-renewable energy - Oil, coal and its environmental impacts.</p>	<p>10</p>



	<p>Renewable energy, Biogas, Wind power and Geothermal energy.</p> <p>Biogas technology- Biogas plant &amp; types, biogasifier.</p> <p>Biogas- composition, production and factors affecting production and uses.</p> <p>Biofuels – ethanol production.</p> <p>Microbial hydrogen production</p> <p>Biofuel, Petrocraps.</p>	<p>Renewable energy – Hydroelectric power, Solar energy.</p> <p>Renewable energy, Biogas, Wind power and Geothermal energy.</p> <p>Biogas technology- Biogas plant &amp; types, biogasifier.</p> <p>Biogas- composition, production and factors affecting production and uses.</p> <p>Biofuels – ethanol production.</p> <p>Microbial hydrogen production</p> <p>Biofuel, Petrocraps.</p>	
<p>Signature of Coordinator: <i>[Signature]</i></p>	<p>Signature of Subject Teacher: <i>[Signature]</i></p>		

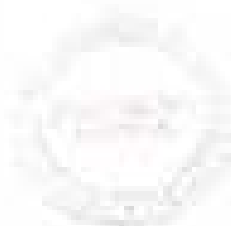


### SX Sheet

LAXMI CHARITABLE TRUST'S  
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DR. S. RAJYAKRISHNAN MARU, ANDHERI (E), MUMBAI - 400 059

#### Teaching Plan and Implementation Record (2023-24)

Department		Biotechnology	
Name of teacher		Mrs. Sneha Khaple	
Class: SY. B.Sc. Semester: III		Subject Code: UNIT201 Subject: Bioprocess Technology	
No of lectures Allowed per week: 03		No of lectures Covered per Semester: 38 No of lectures Allowed per Semester: 48	
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic



<p><b>June</b></p>	<p><b>Unit 4: Fermenter design, media and sterilization</b></p> <p>Air lift fermenter, Tower fermenter, Agitated and aerated, deep jet, packed Tower</p> <p>Fermentation Media: Media components : Carbon source-factors affecting choice of Carbon source with examples, Nitrogen source factors affecting choice of Carbon source with examples, Growth factors, Minerals, buffers, vitamins, Inducers, precursors</p> <p>Antibiotic agents- Types , Properties of Antibiotic agent</p> <p>Medium properties: Fast metabolism, Rheology</p> <p>Concept of Inoculum and Production Media</p> <p>Sterilization : Sterilization of Fermenter and Fermentation Media.</p> <p>Sterilization of Media -Batch and Continuous</p> <p>Concept of D<sub>95</sub> factor</p> <p>Sterilization of Fermenter, Seeds, liquid wastes</p> <p>Sterilization of Air Supply, Exhaust gases</p> <p>Filter sterilization</p>	<p><b>Unit 4: Fermenter design, media and sterilization</b></p> <p>Air lift fermenter, Tower fermenter, Agitated and aerated, deep jet, packed Tower (1)</p> <p>Presentation Media: Media components : Carbon source-factors affecting choice of Carbon source with examples, Nitrogen source factors affecting choice of Carbon source with examples, (1) Growth factors, Minerals, buffers, vitamins, Inducers, precursors</p> <p>Antibiotic agents- Types, Properties of Antibiotic agent (1)</p> <p>Medium properties: Fast metabolism, Rheology</p> <p>Concept of Inoculum and Production Media</p> <p>Sterilization : Sterilization of Fermenter and Fermentation Media</p> <p>Media Sterilization of Media -Batch and Continuous</p> <p>Concept of D<sub>95</sub> factor</p> <p>Sterilization of Fermenter, Seeds, liquid wastes</p> <p>Sterilization of Air Supply, Exhaust gases</p> <p>Filter sterilization (1)</p>	<p><b>10</b></p>
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<p><b>July</b></p>	<p><b>UNIT II Inoculum development and process parameters</b></p> <p>Introduction to Inoculum development; Bacterial and fungal inoculum development with two examples each, scale up, scale down; Detailed steps in Monitoring and Control of process variables</p>	<p><b>UNIT II Inoculum development and process parameters (2)</b></p> <p>Introduction to Inoculum development; (2) Bacterial and fungal inoculum development with two examples each, scale up, scale down; (3) Detailed steps in Monitoring and Control of process variables (3)</p>	<p><b>10</b></p>
<p><b>August</b></p>	<p><b>UNIT III Fermentation processes-I</b></p> <p>Types of fermentations and Fermentation process Significance and applications of Batch and continuous, surface and submerged, aerobic and anaerobic, Solid state fermentation.</p> <ul style="list-style-type: none"> <li>• Industrial products from Microorganisms- Penicillin, streptomycin, penicillin, Streptomycin, Vaccines, Insulin</li> </ul>	<p><b>UNIT III Fermentation processes-I</b></p> <p>Types of fermentation and fermentation process Significance and applications of batch and continuous, surface and submerged, aerobic and anaerobic, Solid state fermentation. (7)</p> <ul style="list-style-type: none"> <li>• Industrial products from Microorganisms- Penicillin, streptomycin, penicillin, Streptomycin, Vaccines, Insulin (5)</li> </ul>	<p><b>13</b></p>
<p><b>September</b></p>	<ul style="list-style-type: none"> <li>• Enzymes and Organic acids from Microorganisms: Ethanol, Citric acid, acetic acid, Lysine, Glutamic acid, Amylase, protease</li> </ul>	<p>Enzymes and Organic acids from Microorganisms (2) Ethanol, Citric acid, acetic acid, Lysine, Glutamic acid, Amylase, protease (3)</p>	<p><b>07</b></p>
<p>Signature of Coordinator: <i>Allwinda</i></p>		<p>Signature of Subject Teacher: <i>Allwinda</i></p>	



**LAXMI NARAYAN TRUSTS**  
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**(DR. S. RAJYAKRISHNAN MARG, ANDHRI (2), MUMBAI) - 400 060**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Mrs. Shweta Khasale</b>	
<b>Class: SY B.Sc. Semester- III Subject: Medical Microbiology</b>			
<b>Subject Code: UBT7501</b>			
<b>No. of lectures Allotted per week: 03</b>		<b>No. of lectures Covered per Semester:</b>	
<b>18</b>		<b>No. of lectures Allotted per Semester:</b>	
<b>45</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>



<p>104</p>	<p><b>UNIT 1 General Bacteriology and Bacteria as Human pathogens, Host-parasite interactions</b>  <b>Host-Parasite Relationship:</b>  <b>General Bacteriology and Bacteria as Human pathogens, Host-parasite interactions</b></p> <p><b>Normal Flora; Factors Affecting the Course of Infection and Disease; Mechanisms of Infection and Virulence Factors.</b>  <b>Infection:</b>  <b>Patterns of Infection; Types of Infections;</b>  <b>Signs and Symptoms;</b>  <b>Epidemiology and Epidemiological Markers.</b>  <b>Disease:</b>  <b>Origin of Pathogens; Victims; Acquisition of Infection; Koch's Postulates.</b></p>	<p><b>UNIT 1 General Bacteriology and Bacteria as Human pathogens, Host-parasite interactions</b>  <b>Host-Parasite Relationship:</b>  <b>General Bacteriology and Bacteria as Human pathogens, Host-parasite interactions (4)</b></p> <p><b>Normal Flora; Factors Affecting the Course of Infection and Disease; Mechanisms of Infection and Virulence Factors.</b>  <b>Infection: (3)</b>  <b>Patterns of Infection; Types of Infections;</b>  <b>Signs and Symptoms;</b>  <b>Epidemiology and Epidemiological Markers.</b>  <b>Disease:</b>  <b>Origin of Pathogens; Victims; Acquisition of Infection; Koch's Postulates.(3)</b></p>	<p>10</p>
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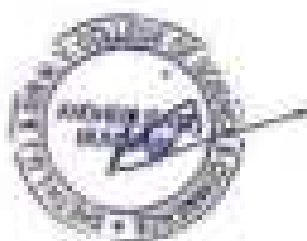
<p>August</p>	<p>UNIT II Causative organisms-1 Skin: <i>S. aureus, R. pyogenes.</i> Respiratory Tract Infections: <i>M. tuberculosis, S. pneumoniae</i> (Characteristics Transmission, Cause of Infection, Lab Diagnosis, Management of TB, Prevention and Control, Immune and Chemoprophylaxis, DOTS and MDR). Urinary Tract Infections: E.coli : Characteristics, Virulence, Clinical diagn. and E.coli Infections.</p>	<p>UNIT II Causative organisms-1 Skin: <i>S. aureus, R. pyogenes.</i> Respiratory Tract Infections: <i>M. tuberculosis, S. pneumoniae</i> (Characteristics Transmission, Cause of Infection, Lab Diagnosis, Management of TB, Prevention and Control, Immune and Chemoprophylaxis, DOTS and MDR). (7) Urinary Tract Infections: E.coli : Characteristics, Virulence, Clinical diagn. and E.coli Infections. (6)</p>	<p>13</p>
<p>August</p>	<p>UNIT III Causative organisms-2 GI Tract Infections: <i>Salmonella and Shigella</i> sp. (Characteristics, Virulence- Pathogenesis and Immunity, Clinical Disease, Carrier Lab Diagnosis, Phage Typing Prophylaxis and Treatment) Sexually Transmitted Disease Syphilis and Gonorrhoea. Nosocomial Infections (<i>P. aeruginosa</i>)</p>	<p>UNIT III Causative organisms-2 GI Tract Infections: <i>Salmonella and Shigella</i> sp. (Characteristics, Virulence- Pathogenesis and Immunity, Clinical Disease, Carrier Lab Diagnosis, Phage Typing Prophylaxis and Treatment). (10) Sexually Transmitted Disease Syphilis and Gonorrhoea. Nosocomial Infections (<i>P. aeruginosa</i>) (3)</p>	<p>15</p>
<p>Signature of Coordinator: <i>Aswinder</i></p>		<p>Signature of Subject Teacher: <i>Aswinder</i></p>	



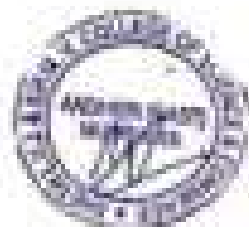
**LAXMI CHARITABLE TRUSTS**  
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**DE. S. RAJANAKRISHNAN MARG, ANANDKRIPI, MUMBAI - 400 089**

**Teaching Plan and Implementation Record (2013-14)**

<b>Department</b>		Biology	
<b>Name of teacher</b>		Ms. Divyani Kapadia, Ms. Dnyanata Ghosh	
<b>Class: V.S.Sc. Semester-III Subject: Applied Chemistry-I</b> <b>Subject Code: 581230</b>			
<b>No. of lectures Allotted per week: 01 No. of lectures Covered per Semester: 40</b> <b>No. of lectures Allotted per Semester: 45</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>



<p>June</p>	<p><b>UNIT I Organic chemistry</b>  <b>Introduction to Types of Organic Reactions :</b>  <b>Addition, Elimination and Substitution Reactions.</b>  <b>Essential and Non-essential Elements in Biological Systems.</b>  <b>Role of Metal ions in Biological Systems.</b>  <b>Metal Coordination in Biological Systems :</b>  <b>Enzymes.</b>  <b>Apoenzymes and Coenzymes.</b>  <b>Biological Role of Metalloenzymes w.r.t Myoglobin, Hemoglobin.</b>  <b>Biological Role of Carboxypeptidase, Catalase and Peroxidase.</b></p>	<p><b>UNIT I Organic chemistry</b>  <b>Introduction to Types of Organic Reactions :</b>  <b>Addition, Elimination and Substitution Reactions.</b>  <b>Essential and Non-essential Elements in Biological Systems.</b>  <b>Role of Metal Ions in Biological Systems. (7)</b>  <b>Metal Coordination in Biological Systems :</b>  <b>Enzymes, Apoenzymes and Coenzymes.</b>  <b>Biological Role of Metalloenzymes w.r.t Myoglobin, Hemoglobin.</b>  <b>Biological Role of Carboxypeptidase, Catalase and Peroxidase. (6)</b></p>	<p>13</p>
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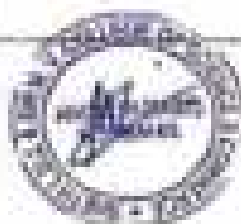
July	<p><b>UNIT III Chromatography and centrifugation</b>  <b>Chromatography-</b>  Principle, working and applications of Affinity chromatography, Ion-exchange chromatography, Molecular (size) exclusion chromatography.  <b>Centrifugation:</b> Basic Principle of sedimentation, Types of Centrifugal Separation: Differential Centrifugation, Density Gradient Centrifugation, Rate Categories, Applications of Centrifugation.</p>	<p><b>UNIT II Chromatography and centrifugation</b>  <b>Chromatography-</b>  Principle, working and applications of Affinity chromatography, (2) Ion-exchange chromatography, Molecular (size) exclusion chromatography. (3)  <b>Centrifugation:</b> Basic Principle of sedimentation, Types of Centrifugal Separation: Differential Centrifugation, Density Gradient Centrifugation, (4)  Rate Categories, Applications of Centrifugation. (1)</p>	11
August	<p><b>UNIT III</b>  <b>Electrophoretic Techniques</b>  <b>Electrophoresis:</b> Migration of ions in an applied electric field; Factors affecting Electrophoretic Mobility; Moving Boundary Electrophoresis; Principle of Electrophoresis; Supporting Matrix; Paper Electrophoresis; AGE, Native and SDS PAGE (reducing and non-reducing, continuous and discontinuous), IEF and 2D PAGE.</p>	<p><b>UNIT III</b>  <b>Electrophoretic Techniques</b>  <b>Electrophoresis:</b> Migration of ions in an applied electric field; Factors affecting Electrophoretic Mobility, (2)  Moving Boundary Electrophoresis; Principle of Electrophoresis; Supporting Matrix, (3)  Paper Electrophoresis; AGE; Native and SDS PAGE (reducing and non-reducing, continuous and discontinuous); IEF and 2D PAGE. (5)</p>	12
September	<p>Staining and Detection Methods; Gel-Documentation, Applications in Biology.</p>	<p>Staining and Detection Methods; Gel-Documentation, (10)  Applications in Biology. (9)</p>	13
Signature of Coordinator: <i>[Signature]</i>		Signature of Subject Teacher: <i>[Signature]</i>	



**LAXMI CHARITABLE TRUST'S  
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108, S. RAJHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 060**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Ms. Dhruv Kapadia</b>	
<b>Class: M B.Sc. Semester-III</b>		<b>Subject: Fundamentals in Biophysics</b>	
<b>Subject Code: CBT304</b>			
<b>No. of lectures Allotted per week: 03 No. of lectures Covered per Semester: 32 No. of lectures Allotted per Semester: 45</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	<b>UNIT I Optics and Microscopy:</b> Introduction to Optics and Lasers; Optics : Properties of Light - Reflection, Refraction, Dispersion, Interference, Lasers : Properties of Lasers, Stimulated Emission, Laser Action; Applications of Laser. Microscopy: Types of Microscopy; Electron Optics; Electron Microscopy- Preparation of Specimens, Construction, Principles and Working; SEM, TEM and Inverse-Electron Microscopy, Fluorescence Microscopy.	<b>UNIT I Optics and Microscopy:</b> Introduction to Optics and Lasers; Optics : Properties of Light - Reflection, Refraction, Dispersion, Interference, Lasers : Properties of Lasers, Stimulated Emission, Laser Action; Applications of Laser Microscopy: Types of Microscopy; Electron Optics; Electron Microscopy- Preparation of Specimens, Construction, Principles and Working; SEM, TEM and Inverse-Electron Microscopy, Fluorescence Microscopy.	<b>10</b>

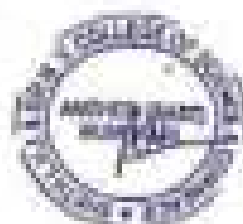


<p><b>August</b></p>	<p><b>Unit II: Heat, Sound, Magnetism and Fluid Dynamics</b></p> <p>Heat: Concept of Temperature; Modes of Heat Transfer; Measuring Temperature; Platinum Resistance Thermometer; Thermocouple and Thermistors. Sound: Types of Sound Waves - Audible, Ultrasonic and Infrasonic Waves, Doppler Effect; Applications of Ultrasonic Waves. Magnetism: Magnetic Field; Magnetism of Earth, Paramagnetism, Diamagnetism, Ferromagnetism. Nuclear Magnetism and Biomagnetism. Fluid Dynamics : Viscosity; Definition Flow of Liquids through Capillaries; Stokes' Law; Terminal Velocity. Determination of "<math>\eta</math>" by Falling Sphere Method; Viscosity Estimation by Oswald's Viscometer. Surface Tension: Definition-Surface Tension and Surface Energy, Capillary Action; Angle of Contact; Wettability; Temperature Dependence of Surface Tension. Applications in Biology.</p>	<p><b>Unit II: Heat, Sound, Magnetism and Fluid Dynamics</b></p> <p>Heat: Concept of Temperature; Modes of Heat Transfer; Measuring Temperature; Platinum Resistance Thermometer; Thermocouple and Thermistors. Sound: Types of Sound Waves - Audible, Ultrasonic and Infrasonic Waves, Doppler Effect; Applications of Ultrasonic Waves. Magnetism: Magnetic Field; Magnetism of Earth, Paramagnetism, Diamagnetism, Ferromagnetism. Nuclear Magnetism and Biomagnetism. Fluid Dynamics : Viscosity; Definition Flow of Liquids through Capillaries; Stokes' Law; Terminal Velocity. Determination of "<math>\eta</math>" by Falling Sphere Method; Viscosity Estimation by Oswald's Viscometer. Surface Tension: Definition-Surface Tension and Surface Energy, Capillary Action; Angle of Contact; Wettability; Temperature Dependence of Surface Tension. Applications in Biology.</p>	<p><b>10</b></p>
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	<b>UNIT III Spectroscopy</b> Spectroscopy Types and Properties of Spectra; Basic Laws of Light Absorption. Principle, instrumentation, working and applications of: UV Spectroscopy Fluorescence Spectroscopy Luminometry Light scattering spectroscopy Infrared Spectroscopy	<b>UNIT III Spectroscopy</b> Spectroscopy Types and Properties of Spectra; Basic Laws of Light Absorption. Principle, instrumentation, working and applications of: UV Spectroscopy Fluorescence Spectroscopy Luminometry Light scattering spectroscopy Infrared Spectroscopy	12
Signature of Coordinator:	<i>S. Shinde</i>	Signature of Subject Teacher:	<i>P. Shinde</i>

<b>LAXMI CHARITABLE TRUSTS</b> <b>SREE LEE &amp; SRI NY. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RADHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 069</b>			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
Department		Biotechnology	
Name of teacher		Ms. Dayanada Ghadi	
Class: BV B.Sc. Semester-III Subject: Immunology Subject Code: UBT303			
No. of lectures Allotted per week: 03 No. of lectures Covered per Semester: 45 No. of lectures Allotted per Semester: 45			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic



<p><b>June</b></p>	<p>UNIT I Cell and organs of immune system, Complement system Hematopoiesis, Cells of the Immune System, Primary and Secondary Lymphoid Organs, Complement System- Classical, Alternate and Lectin; Regulation and Biological Effects of Complement System; Deficiencies of Complement System</p>	<p>UNIT I Cell and organs of immune system, Complement system Hematopoiesis, Cells of the Immune System, Primary and Secondary Lymphoid Organs, Complement System- Classical, Alternate and Lectin; Regulation and Biological Effects of Complement System; Deficiencies of Complement System</p>	<p>13</p>
<p><b>July</b></p>	<p>UNIT II MHC and Antigen presentation pathways, TCR/CD3, T cell and B cell Activation T-cell Receptor Complex : Structure and Activation, MHC Classes - General Organization and Inheritance; Structure and Peptide Interaction; Class I and II Diversity and Polymorphism; Antigen Presentation - Endocytic and Exocytic Pathways; MHC Restriction, B-cell Receptor : Structure, Maturation and Activation B-T Cell Interaction (B-T cell Cooperation)</p>	<p>UNIT II MHC and Antigen presentation pathways, TCR/CD3, T cell and B cell Activation T-cell Receptor Complex : Structure and Activation, MHC Classes - General Organization and Inheritance; Structure and Peptide Interaction; Class I and II Diversity and Polymorphism; Antigen Presentation - Endocytic and Exocytic Pathways; MHC Restriction, B-cell Receptor : Structure, Maturation and Activation B-T Cell Interaction (B-T cell Cooperation)</p>	<p>12</p>



July	<b>UNIT III Immunotechniques</b> Precipitation Reactions: Immuno-precipitation, Immunoelectrophoresis, CIEP, Rocket Electrophoresis and 2- D Immunoelectrophoresis. Agglutination Reactions: Passive, Reverse Passive, Agglutination Inhibition. Coombs' Test, Complement Fixation Tests, RIA,	<b>UNIT III Immunotechniques</b> Precipitation Reactions: Immuno-precipitation, Immunoelectrophoresis, CIEP, Rocket Electrophoresis and 2-D Immunoelectrophoresis. Agglutination Reactions: Passive, Reverse Passive, Agglutination Inhibition. Coombs' Test, Complement Fixation Tests, RIA,	11
August	<b>ELISA, ELISPT,</b> Chemiluminescence, Western Blot, Immunofluorescence, Flow Cytometry, Alternatives to Antigen- Antibody Reactions		16

Signature of Coordinator: *[Signature]*      Signature of Subject Teacher: *[Signature]*



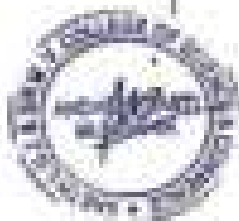
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DR. S. RAJSHAKRINAR MARG, ANHURTI (E), MUMBAI - 400 069**

**Tracking Plan and Implementation Record (2013-13)**

<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Yartak</b>	
<b>Course/ B.Sc. Semester-III</b>		<b>Subject: Molecular Biology III Subject Code: USBT306</b>	
<b>No. of lectures Allotted per week</b>		<b>No. Of lectures Covered per Semester: 48</b>	
<b>48</b>		<b>No. Of lectures Allotted per Semester: 48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	<b>UNIT I Transcription Transcription Process in Prokaryotes: RNA Synthesis, Promoters and Enhancers; Initiation of Transcription at Promoters; Elongation and Termination of an RNA Chain Transcription in Eukaryotes: Eukaryotic RNA Polymerases; Eukaryotic Promoters; Transcription of Protein Coding Genes by RNA Polymerase; Eukaryotic mRNA's; Transcription of other genes; Splicing; RNA editing.</b>	<b>UNIT I Transcription Transcription Process in Prokaryotes: RNA Synthesis, Promoters and Enhancers; Initiation of Transcription at Promoters; Elongation and Termination of an RNA Chain Transcription in Eukaryotes: Eukaryotic RNA Polymerases; Eukaryotic Promoters; Transcription of Protein Coding Genes by RNA Polymerase; Eukaryotic mRNA's; Transcription of other genes; Splicing; RNA editing.</b>	<b>15</b>



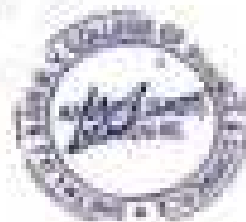
July	<b>UNIT II Translation</b> Nature of Genetic Code, Wobble Hypothesis, Translation in Prokaryotes and Eukaryotes: Process of Protein Synthesis (Initiation, Elongation, Translocation, Termination), Post Translational Modifications, Protein sorting.	<b>UNIT II Translation</b> Nature of Genetic Code, Wobble Hypothesis, Translation in Prokaryotes and Eukaryotes: Process of Protein Synthesis (Initiation, Elongation, Translocation, Termination), Post Translational Modifications, Protein sorting.	11
July	<b>UNIT III Regulation of gene          expression in Prokaryotes and          Viruses in Prokaryotes:</b> lac Operon of E.coli	<b>UNIT III Regulation of gene          expression in Prokaryotes and          Viruses in Prokaryotes:</b> lac Operon of E.coli	12
August	top Operon of E.coli, Arabinose operon, In Viruses : Lytic and Lysogenic Regulation.	top Operon of E.coli, Arabinose operon In Viruses : Lytic and Lysogenic Regulation.	13
Signature of Coordinator: <i>S. S. Sharma</i>		Signature of Subject Teachers: <i>M. K. Singh</i>	



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DR. B. RAJAKRISHNAN MARG, ANHIRE (E), MUMBAI - 400 069**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Hirani Kapadia</b>	
<b>Class/VI B.Sc. Semester-III and Presentation</b>		<b>Subject: Bio safety Lectures Subject Code: USBT307</b>	
<b>No of lectures Allotted per week: 03</b>		<b>No of lectures Covered per Semester: 30</b>	
<b>No of lectures Allotted per Semester: 48</b>		<b>0</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	<b>UNIT I Introduction to bio safety, GLP Introduction Biological Risk Assessment, Hazards Characteristics of an Agent; Genetically modified agent hazards; Cell culture; Hazards Characteristics of Laboratory Procedures; Potential Hazards Associated with Work Practice; Concept of GLP; Practising GLP.</b>	<b>UNIT I Introduction to bio safety, GLP Introduction Biological Risk Assessment, Hazards Characteristics of an Agent; Genetically modified agent hazards; Cell culture; Hazards Characteristics of Laboratory Procedures; Potential Hazards Associated with Work Practice; Concept of GLP; Practising GLP.</b>	<b>06</b>
<b>July</b>	<b>Guidelines to GLP; Documentation of Laboratory work; Preparation of SOPs; Calibration records; Validation of methods; Documentation of results; Audit &amp; Audit reports.</b>	<b>Guidelines to GLP; Documentation of Laboratory work; Preparation of SOPs; Calibration records; Validation of methods; Documentation of results; Audit &amp; Audit reports.</b>	<b>04</b>



<p><b>September</b></p>	<p><b>UNIT II</b> <i>History in diagnostic labs.</i></p> <p><b>History</b>                  Clinical diagnosis lab practice and procedures                  Personal competence and training                  Facility design                  Specimen and material receipt and storage                  Decontamination and waste management                  Personal protective equipment                  Laboratory equipment                  Safe techniques                  Emergency/incident response                  Occupational health                  Transport                  Maintenance of records                  Reporting of accidents                  Training</p>	<p><b>UNIT II</b> <i>History in diagnostic labs.</i></p> <p><b>History</b>                  Clinical diagnosis lab practice and procedures                  Personal competence and training                  Facility design                  Specimen and material receipt and storage                  Decontamination and waste management                  Personal protective equipment                  Laboratory equipment                  Safe techniques                  Emergency/incident response                  Occupational health                  Transport                  Maintenance of records                  Reporting of accidents                  Training</p>	<p>10</p>
<p><b>September</b></p>	<p><b>UNIT III</b> <i>Detection and testing of contaminants.</i>                  Microbial Contamination in food and pharma products; Some common microbial contaminants; Microbiological Assays for pharmaceutical products; Regulatory Microbiological testing in pharmaceuticals.</p>	<p><b>UNIT III</b> <i>Detection and testing of contaminants.</i>                  Microbial Contamination in food and pharma products; Some common microbial contaminants; Microbiological Assays for pharmaceutical products; Regulatory Microbiological testing in pharmaceuticals.</p>	<p>10</p>
<p>Signature of Coordinator: <i>[Signature]</i></p>		<p>Signature of Subject Teacher: <i>[Signature]</i></p>	



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**DR. S. BAIKARSHIMAN MARG, ANTIHILL (E), MUMBAI - 400 067**



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Microbiology</b>	
<b>Name of teacher</b>		<b>Mrs. Shweta Khopde</b>	
<b>Class: SY B.Sc.</b>		<b>Semester-IV</b>	
<b>Subject: Medical Microbiology</b>		<b>Subject Code: LM0101</b>	
<b>Total lectures Allotted per week/20</b>		<b>No. of lectures Covered per</b>	
<b>Semester/48</b>		<b>No. of lectures Allotted per Semester/</b>	
<b>48</b>		<b>48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>October</b>	<b>UNIT I Viral and fungal diseases Pathogenesis, clinical symptoms, laboratory diagnosis, epidemiology, prophylaxis and treatment of Viral diseases Air borne viral diseases: Influenza, measles, COVID</b>	<b>UNIT I Viral and fungal diseases Pathogenesis, clinical symptoms, laboratory diagnosis, epidemiology, prophylaxis and treatment of Viral diseases Air borne viral diseases: Influenza, measles, COVID</b>	<b>01</b>
<b>November</b>	<b>Vector Borne viral diseases: (Dengue, AIDS, Rabies), Fungal diseases- transmission, symptoms and prevention of cutaneous mycoses (Athlete's foot), systemic mycoses (Histoplasmosis) and opportunistic mycoses (Candidiasis)</b>	<b>Vector Borne viral diseases: (Dengue, AIDS, Rabies), Fungal diseases- transmission, symptoms and prevention of cutaneous mycoses (Athlete's foot), systemic mycoses (Histoplasmosis) and opportunistic mycoses (Candidiasis)</b>	<b>08</b>



<b>December</b>	<p><b>UNIT II</b> Chemotherapeutic agents I</p> <p>Discovery and Design of antimicrobial agents, Classification of Antibacterial agents, Selective toxicity, MIC, MLC Inhibition of cell wall synthesis (Mode of action (i) Beta lactam antibiotics: Penicillin, Cephalosporins, Glycopeptides Vancomycin, Polypeptides, Bacitracin Injury to Plasma membrane: Polymyxin, Inhibition of protein synthesis Aminoglycosides, Tetracyclines Chloramphenicol, Macrolides Erythromycin, Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin, Metronidazole ) Antimetabolites: Sulphonamides, Trimethoprim,</p>	<p><b>UNIT II</b> Chemotherapeutic agents I</p> <p>Discovery and Design of antimicrobial agents, Classification of Antibacterial agents, Selective toxicity, MIC, MLC Inhibition of cell wall synthesis (Mode of action (i) Beta lactam antibiotics: Penicillin, Cephalosporins, Glycopeptides: Vancomycin, Polypeptides: Bacitracin Injury to Plasma membrane: Polymyxin, Inhibition of protein synthesis Aminoglycosides, Tetracyclines Chloramphenicol, Macrolides Erythromycin, Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin, Metronidazole ) Antimetabolites: Sulphonamides, Trimethoprim,</p>	12



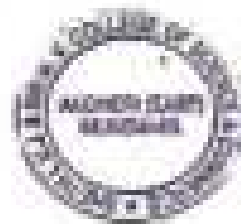
January	<b>UNIT III</b> Antimicrobial susceptibility tests Drug Resistance: Mechanism, Origin and transmission of drug resistance; Use and misuse of antimicrobial agents; Antifungal drugs, Azoles, Polyenes, Echinocandins, Glycosylates, Pyrimidine Analogues Antiviral drugs : Drugs that target the viral DNA polymerase (Acyclovir, Ganciclovir)	<b>UNIT III</b> Antimicrobial susceptibility tests Drug Resistance: Mechanism, Origin and transmission of drug resistance; Use and misuse of antimicrobial agents; Antifungal drugs, Azoles, Polyenes, Echinocandins, Glycosylates, Pyrimidine Analogues Antiviral drugs : Drugs that target the viral DNA polymerase (Acyclovir, Ganciclovir)	18
February	Nucleoside and nucleotide reverse transcriptase inhibitors (Zidovudine) Non -nucleoside reverse transcriptase inhibitors (Nevirapine) Protease inhibitors Fusion inhibitors (Enfuvirtide)	Nucleoside and nucleotide reverse transcriptase inhibitors (Zidovudine) Non -nucleoside reverse transcriptase inhibitors (Nevirapine) Protease inhibitors Fusion inhibitors (Enfuvirtide)	18
Signature of Coordinator:			Signature of Subject Teacher: 



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**Teaching Plan and Implementation Record (2023-24)**

Department		Biotechnology	
Name of teacher		Ms. Dayanada Ghadi	
Class: B.Y. B.Sc. Semester-IV		Subject: Cell Biology and Cytogenetics	
Subject Code: BSBT-02			
No. of lectures Allotted per week: 03		No. of lectures Covered per	
Semester: 08		No. of lectures Allotted per Semester:	
48			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic



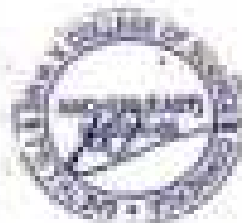
<p><b>December</b></p>	<p><b>UNIT I Cytoskeleton</b>  <b>Cytoskeleton :</b>  Overview of the Major Functions of Cytoskeleton.  Microtubules: Structure and Composition, MAPs.  Functions- Role in Mitosis, Structural Support and Cytoskeleton Intracellular Motility.  Motor Proteins: Kinesins, Dynein, MTDCs.  Dynamic Properties of Microtubules.</p>	<p><b>UNIT I Cytoskeleton</b>  <b>Cytoskeleton :</b>  Overview of the Major Functions of Cytoskeleton.  Microtubules: Structure and Composition, MAPs.  Functions- Role in Mitosis, Structural Support and Cytoskeleton Intracellular Motility.  Motor Proteins: Kinesins, Dynein, MTDCs.  Dynamic Properties of Microtubules.</p>	<p>07</p>
<p><b>January</b></p>	<p><b>Microtubules in Cilia and Flagella.</b>  Microfilaments: Structure, Composition, Assembly and Disassembly.  Motor Protein: Myosin.  Muscle Contractility: Sliding Filament Model. Actin Binding Proteins : Examples of Non Muscle Motility.  Intermediate Filaments (Structure and Composition, Assembly and Disassembly, Types and Functions.</p>	<p><b>Microtubules in Cilia and Flagella.</b>  Microfilaments: Structure, Composition, Assembly and Disassembly.  Motor Protein: Myosin.  Muscle Contractility: Sliding Filament Model. Actin Binding Proteins : Examples of Non Muscle Motility.  Intermediate Filaments (Structure and Composition, Assembly and Disassembly, Types and Functions.</p>	<p>07</p>



January	<b>UNIT II Cell membrane</b> <b>Cell Membrane:</b> Uptake of Nutrients by Prokaryotic Cells, Cell Permeability, Principles of Membrane Transport Transporters and Channels, Active Transport, Passive Transport, Types of Transporters, Types of ATP Driven Pumps - Na <sup>+</sup> K <sup>+</sup> Pump	<b>UNIT II Cell membrane</b> <b>Cell Membrane:</b> Uptake of Nutrients by Prokaryotic Cells, Cell Permeability, Principles of Membrane Transport Transporters and Channels, Active Transport, Passive Transport, Types of Transporters, Types of ATP Driven Pumps - Na <sup>+</sup> K <sup>+</sup> Pump	BT
February	<b>Cell Junctions:</b> Cell Adhesion and Extracellular Matrix, Microvilli, Tight Junctions, Gap Junctions, Cell Coat and Cell Recognition, Cellular Interactions	<b>Cell Junctions:</b> Cell Adhesion and Extracellular Matrix, Microvilli, Tight Junctions, Gap Junctions, Cell Coat and Cell Recognition, Cellular Interactions	CB



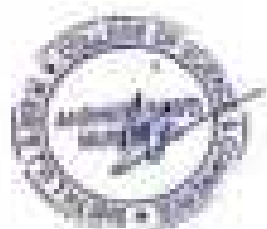
<p>February</p>	<p>UNIT III Cytogenetics Structure of Chromosomes – Heterochromatin, Euchromatin, Polytene Chromosomes, Variation in Chromosomal Structure and Number: Deletions, Duplications, Inversions, Translocations, Aneuploidy, Euploidy and Polyploidy and Syndromes- Klinefelter, Turner, Cri-du-Chat, Trisomy -21, Trisomy 18 and Trisomy 13. Sex Determination and Sex Linkage: Mechanisms of Sex Determination (XX-XY, ZZ-ZW, XX-XX) Dosage Compensation and Barr Body: Genes Linkage, Crossing Over and Chromosomal Mapping</p>	<p>UNIT III Cytogenetics Structure of Chromosomes – Heterochromatin, Euchromatin, Polytene Chromosomes, Variation in Chromosomal Structure and Number: Deletions, Duplications, Inversions, Translocations, Aneuploidy, Euploidy and Polyploidy and Syndromes- Klinefelter, Turner, Cri-du-Chat, Trisomy -21, Trisomy 18 and Trisomy 13. Sex Determination and Sex Linkage: Mechanisms of Sex Determination (XX-XY, ZZ- ZW, XX-XX) Dosage Compensation and Barr Body: Genes Linkage, Crossing Over and Chromosomal Mapping</p>	<p>10</p>
<p>March</p>	<p>Tetrad Analysis, Two-point Cross, Three point Cross, Pedigree Analysis.</p>	<p>Tetrad Analysis, Two-point Cross, Three point Cross, Pedigree Analysis.</p>	<p>04</p>
<p>Signature of Coordinator: <i>S. S. S. S.</i></p>		<p>Signature of Subject Teacher: <i>S. S. S. S.</i></p>	



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**DR. S. RADHAKRISHNAN MARI, ANCHURJI (II), MUMBAI – 400 079**

**Teaching Plan and Implementation Record (2022-23)**

<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Ms. Ishwari Kapadia</b>	
<b>Class: B.Y.B.Sc. Semester-IV</b>		<b>Subject: Applied Chemistry-2</b>	
<b>Subject Code: USBT402</b>			
<b>No. of lectures Allotted per week: 03</b>		<b>No. of lectures Covered per semester: 20</b>	<b>Total</b>
<b>lectures Allotted per Semester: 45</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>November</b>	<b>UNIT I Synthesis of organic compounds Synthesis of Organic Compounds : Criteria for Ideal Synthesis; Selectivity and Yield. Linear and Convergent Synthesis and Multicomponent Reactions.</b>	<b>UNIT I Synthesis of organic compounds Synthesis of Organic Compounds : Criteria for Ideal Synthesis; Selectivity and Yield. Linear and Convergent Synthesis and Multicomponent Reactions.</b>	<b>07</b>
<b>December</b>	<b>Microwave Assisted Organic Synthesis, Ultrasound in Synthesis and Polymer supported Synthesis. Retrosynthesis.</b>	<b>Microwave Assisted Organic Synthesis, Ultrasound in Synthesis and Polymer supported Synthesis. Retrosynthesis.</b>	<b>04</b>



December	<p>UNIT II Natural Product Chemistry and green chemistry Primary and Secondary Metabolites. Classification of Natural Products based on Their Synthesis.</p>	<p>UNIT II Natural Product Chemistry and green chemistry Primary and Secondary Metabolites. Classification of Natural Products based on Their Synthesis.</p>	04
January	<p>Classification of Natural Products based on Structure- Alkaloids, Phenolics, Essential Oils and Steroids. Structure Determination of Natural Product, Commercial Synthesis of Natural Products.</p>	<p>Classification of Natural Products based on Structure- Alkaloids, Phenolics, Essential Oils and Steroids. Structure Determination of Natural Product/Commercial Synthesis of Natural Products.</p>	02
January	<p>Green Chemistry and Synthesis Introduction to Green Chemistry; Need and Relevance of Green Chemistry; Principles of Green Chemistry. Green Synthesis in Industry: Green Materials, Green Reagents, Green Solvents and Green Catalysts.</p>	<p>Green Chemistry and Synthesis Introduction to Green Chemistry; Need and Relevance of Green Chemistry; Principles of Green Chemistry. Green Synthesis in Industry: Green Materials, Green Reagents, Green Solvents and Green Catalysts.</p>	03
January	<p>UNIT III Nanotechnology Nanomaterials; Introduction to Nanomaterials. Forms of Nanomaterials: Nanoparticles, Nanofibres and Nanotubes</p>	<p>UNIT III Nanotechnology Nanomaterials; Introduction to Nanomaterials. Forms of Nanomaterials: Nanoparticles, Nanofibres and Nanotubes</p>	06
February	<p>Synthesis and Characterization of Nanomaterials. Applications of Nanomaterials.</p>	<p>Synthesis and Characterization of Nanomaterials. Applications of Nanomaterials.</p>	02
Signature of Coordinator: <i>Abhinav</i>		Signature of Subject Teacher: <i>for Abhinav</i>	



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**DR. S. RAMAKRISHNAN MARG, ANHURI (2), MUMBAI - 400 009**

**Teaching Plan and Implementation Record (2022-23)**

<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Devyashree Ghosh</b>	
<b>Class: SY B.Sc. Semester-IV</b>		<b>Subject: Biochemistry</b> <b>Subject Code: USBT-04</b>	
<b>No. of lectures Allotted per week: 03</b> <b>Semester: 40</b>		<b>No. of lectures Covered per</b> <b>Semester: 40</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>



<b>October</b>	<b>UNIT I Carbohydrate Metabolism, ETS and Energy Rich Compounds Glycolytic Pathway and its Regulation.</b>	<b>UNIT I Carbohydrate Metabolism, ETS and Energy Rich Compounds Glycolytic Pathway and its Regulation.</b>	<b>01</b>
<b>November</b>	<b>Hexokinase Fermentation; Alcoholic Fermentation; Energetics of Fermentation; Citric Acid Cycle and its Regulation; Gluconeogenesis; Pentose Phosphate Pathway; Glyoxalate Pathway; Reductive TCA . Sequence of Reactions, Regulation.</b>	<b>Hexokinase Fermentation; Alcoholic Fermentation; Energetics of Fermentation; Citric Acid Cycle and its Regulation; Gluconeogenesis; Pentose Phosphate Pathway; Glyoxalate Pathway; Reductive TCA . Sequence of Reactions, Regulation.</b>	<b>05</b>
<b>December</b>	<b>Energy Yield and Metabolic Disorders of the above Pathways) Electron Transport System : Electron Transport and Oxidative Phosphorylation, Inhibitors of ETS, Energy Rich Compounds : ATP as Energy Currency, Structure of ATP, Hydrolysis, Other Energy Rich Compounds other than ATP like PEP, Creatine Phosphate, etc.</b>	<b>Energy Yield and Metabolic Disorders of the above Pathways) Electron Transport System : Electron Transport and Oxidative Phosphorylation, Inhibitors of ETS, Energy Rich Compounds : ATP as Energy Currency, Structure of ATP, Hydrolysis, Other Energy Rich Compounds other than ATP like PEP, Creatine Phosphate, etc.</b>	<b>07</b>



<p><b>January</b></p>	<p><b>UNIT II Amino acid metabolism</b>  <b>Amino Acid Breakdown:</b>          Decarboxylation, Transamination, Urea Cycle,          Breakdown of Glucogenic and Ketogenic Amino Acids,          Amino Acids as Biosynthetic Precursors)          Biosynthesis of Epinephrine, Dopamine, Serotonin, GABA, Histamine, Glutathione,          (Sequence of Reactions, Regulation and Metabolic Disorders of the above Pathways)</p>	<p><b>UNIT II Amino acid metabolism</b>  <b>Amino Acid Breakdown:</b>          Decarboxylation, Transamination, Urea Cycle,          Breakdown of Glucogenic and Ketogenic Amino Acids,          Amino Acids as Biosynthetic Precursors)          Biosynthesis of Epinephrine, Dopamine, Serotonin, GABA, Histamine, Glutathione,          (Sequence of Reactions, Regulation and Metabolic Disorders of the above Pathways)</p>	<p>17</p>
<p><b>February</b></p>	<p><b>UNIT III Lipid metabolism</b>  <b>Lipid Metabolism:</b>          Mobilization, Transport of Fatty Acids,          Beta, Alpha and Omega Oxidation of Saturated Fatty Acids, Oxidation of Unsaturated Fatty Acids, Oxidation of Odd Chain Fatty Acids, Energy Yield, Ketone Body Breakdown to Yield Energy,          (Sequence of Reactions, Regulation, Energy Yield and Metabolic Disorders of the above Pathways)</p>	<p><b>UNIT III Lipid metabolism</b>  <b>Lipid Metabolism:</b>          Mobilization, Transport of Fatty Acids,          Beta, Alpha and Omega Oxidation of Saturated Fatty Acids, Oxidation of Unsaturated Fatty Acids, Oxidation of Odd Chain Fatty Acids, Energy Yield, Ketone Body Breakdown to Yield Energy,          (Sequence of Reactions, Regulation, Energy Yield and Metabolic Disorders of the above Pathways)</p>	<p>18</p>
<p>Signature of Coordinator: <i>B. Shinde</i></p>		<p>Signature of Subject Teacher: <i>B. Shinde</i></p>	



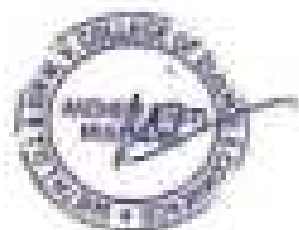
LAXMI CHARITABLE TRUST'S  
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DR. B. RAJLAKSHMINAN NAGEL, ANDHRA (D), MUMBAI - 400 069

**Teaching Plan and Implementation Record (2023-24)**

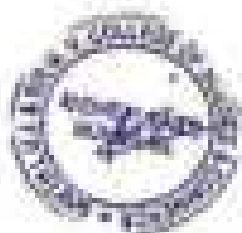
Department	Biochemistry
Name of teacher	Dr. Priyanka Vartak
Class(SY B.Sc. Semester-IV)	Subject: Molecular Diagnostics Subject Code: USHT402
No. of lectures Allotted per week: 03 Semester: 01	No. of lectures Covered per Semester: 45



Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
October	UNIT I Basis of molecular diagnostics Introduction to Molecular Diagnostics : Overview of Molecular Diagnostics; History of Molecular Diagnostics; Molecular Diagnostics in Past Genetic Era; Areas used in Molecular Diagnostics; Future Prospects - Commercialising Molecular Diagnostics, Personalized Medicine, Therapeutics Characterization and analysis of Nucleic - Acids and Proteins :	UNIT I Basis of molecular diagnostics Introduction to Molecular Diagnostics : Overview of Molecular Diagnostics; History of Molecular Diagnostics; Molecular Diagnostics in Past Genetic Era; Areas used in Molecular Diagnostics; Future Prospects - Commercialising Molecular Diagnostics, Personalized Medicine, Therapeutics Characterization and analysis of Nucleic - Acids and Proteins :	06
November	Extraction, Isolation and Detection of DNA, RNA and Proteins; Restriction Endonucleases and Restriction Enzyme Mapping; Hybridisation Techniques : Southern, Northern, Western and FISH.	Extraction, Isolation and Detection of DNA, RNA and Proteins; Restriction Endonucleases and Restriction Enzyme Mapping; Hybridisation Techniques : Southern, Northern, Western and FISH.	03
December	Markers, Probes and its Clinical Applications.	Markers, Probes and its Clinical Applications.	01



<p>December 2</p>	<p><b>UNIT II Nucleic acid amplification methods</b></p> <p>Target amplification ;  <b>PCR - General Principle;</b>  <b>Components of a Typical PCR Reaction; Experimental Design; Primer Designing; Control of PCR; Contamination and Mispriming; PCR Product Clean-up and Detection.</b>  <b>PCR Types :</b>  <b>Reverse Transcriptase and Real Time PCR. Probe amplification ;</b>  <b>Ligase Chain Reaction</b></p>	<p><b>UNIT II Nucleic acid amplification methods</b></p> <p>Target amplification ;  <b>PCR - General Principle;</b>  <b>Components of a Typical PCR Reaction; Experimental Design; Primer Designing; Control of PCR; Contamination and Mispriming; PCR Product Clean-up and Detection.</b>  <b>PCR Types :</b>  <b>Reverse Transcriptase and Real Time PCR. Probe amplification ;</b>  <b>Ligase Chain Reaction</b></p>	<p>10</p>
<p>Jan- February 3</p>	<p><b>UNIT III Molecular biology based diagnostics</b>  <b>DNA Polymerization and Identification: RFLP and Percentage Testing;</b>  <b>RFLP and Sickle-Cell Anemia.</b>  <b>Genetic Counseling and Molecular Diagnosis</b>  <b>Genetic Testing - Need and Uses; genetic Counseling; Case Studies</b>  <b>- Diagnostic Testing for Cystic Fibrosis; Fragile X Diagnostic and Carrier Testing;</b>  <b>Ethical, Social and Legal Issues in Molecular-Genetic Testing</b></p>	<p><b>UNIT III Molecular biology based diagnostics</b>  <b>DNA Polymerization and Identification: RFLP and Percentage Testing;</b>  <b>RFLP and Sickle-Cell Anemia.</b>  <b>Genetic Counseling and Molecular Diagnosis</b>  <b>Genetic Testing - Need and Uses; genetic Counseling; Case Studies</b>  <b>- Diagnostic Testing for Cystic Fibrosis; Fragile X Diagnostic and Carrier Testing;</b>  <b>Ethical, Social and Legal Issues in Molecular-Genetic Testing</b></p>	<p>11</p>
<p>Signature of Coordinator: <i>allinda</i></p>		<p>Signature of Subject Teacher: <i>P. Prasad</i></p>	



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**THE S. RAHIMANINAN NAGRI, ANHURTI (E), MUMBAI - 400 069**



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Dr. Priyanka Vastak, Ms. Divyani Kapadia</b>	
<b>Class: B.Y. B.Sc. Semester-IV Subject: Biochemistry and Biostatistics</b>			
<b>Subject Code: USBT406</b>			
<b>No. of lectures Allotted per week: 03</b>		<b>No. of lectures Covered per</b>	
<b>Semester: 30</b>		<b>No. of lectures Allotted per Semester: 09</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>



<p><b>January</b></p>	<p><b>UNIT I Introduction to Computers and Biological Databases</b>  <b>Computer Basics:</b>          Basic Computer Operations: I/O Units, Computer Memory, Processor, Binary Arithmetic, Logic          Circuits, Architecture, Operating System and application softwares,  <b>Biological Databases:</b>          Classification of Databases - Raw and Processed          Databases, Primary (PDB), Secondary (PDB) and Tertiary or Composite (KEGG) Databases; Structure and Sequence Databases, Specialized Databases - Protein Pattern Databases, Protein Structure and Classification Database (CATH/SCOP), Genome Information Resources: DNA Sequence Databases, Specialized Genome Resources,          Protein Databases based on Composition, Motifs and Patterns,          Protein Structure Visualization Software.</p>	<p><b>UNIT I Introduction to Computers and Biological Databases</b>  <b>Computer Basics:</b>          Basic Computer Operations: I/O Units, Computer Memory, Processor, Binary Arithmetic, Logic          Circuits, Architecture, Operating System and application softwares,  <b>Biological Databases:</b>          Classification of Databases - Raw and Processed          Databases, Primary (PDB), Secondary (PDB) and Tertiary or Composite (KEGG) Databases; Structure and Sequence Databases, Specialized Databases - Protein Pattern Databases, Protein Structure and Classification Database (CATH/SCOP), Genome Information Resources: DNA Sequence Databases, Specialized Genome Resources,          Protein Databases based on Composition, Motifs and Patterns,          Protein Structure Visualization Software.</p>	<p>10</p>
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February	<p><b>UNIT II BLAST</b> and sequence alignment</p> <p>BLAST and its Types; Retrieving Sequences using BLAST.</p> <p>Pairwise Alignment : Identity and Similarity; Global and Local Alignment; Pairwise Database Searching.</p> <p>Multiple Sequence Alignment: Goal of Multiple Sequence Alignment; Computational Complexity; Manual Methods; Simultaneous Methods; Progressive Methods; Database of Multiple Alignment; Secondary Database Searching; Analysis Packages; MSA.</p>	<p><b>UNIT II BLAST</b> and sequence alignment</p> <p>BLAST and its Types; Retrieving Sequences using BLAST.</p> <p>Pairwise Alignment : Identity and Similarity; Global and Local Alignment; Pairwise Database Searching.</p> <p>Multiple Sequence Alignment: Goal of Multiple Sequence Alignment; Computational Complexity; Manual Methods; Simultaneous Methods; Progressive Methods; Database of Multiple Alignment; Secondary Database Searching; Analysis Packages; MSA.</p>	19
February-March	<p><b>UNIT III Biostatistics</b> Theory and Problems based on- Coefficient of Correlation and Regression Analysis; Steps in Testing Statistical Hypothesis; Parametric Tests- <math>t</math> Test - Single Mean and Two Means, <math>F</math>-Test - Single Mean, Paired and Unpaired; Chi Square Test.</p>	<p><b>UNIT III Biostatistics</b> Theory and Problems based on- Coefficient of Correlation and Regression Analysis; Steps in Testing Statistical Hypothesis; Parametric Tests- <math>t</math> Test - Single Mean and Two Means, <math>F</math>-Test - Single Mean, Paired and Unpaired; Chi Square Test.</p>	20
Signature of Coordinator:			
Signature of Subject Teacher:			



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**DR. S. RAJIAKRISHNAN MARG, ANDHRI (II), MUMBAI - 400 049**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Mrs. Shweta Khopde, Dr. Priyanka Yartak</b>	
<b>Class: B.Sc. Semester-IV Subject: Research Methodology</b>			
<b>Subject Code: USHT407</b>			
<b>No. of lectures Allotted per week: 03 No. of lectures Covered per Semester: 06</b>			
<b>No. of lectures Allotted per Semester: 48</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>January</b>	<b>UNIT I Introduction to Research Methodology and Research Problem</b> Meaning of Research; Objectives of Research; Motivation in Research; Types of Research; Research Approaches; Significance of Research; Research Methods versus Methodology; Research Process; Criteria of Good Research; Problems Encountered by Researchers in India;	<b>UNIT I Introduction to Research Methodology and Research Problem</b> Meaning of Research; Objectives of Research; Motivation in Research; Types of Research; Research Approaches; Significance of Research; Research Methods versus Methodology; Research Process; Criteria of Good Research; Problems Encountered by Researchers in India;	<b>08</b>
<b>February</b>	What is a Research Problem? Selecting the Problem; Necessity of Defining the Problem; Technique Involved in Defining a Problem	What is a Research Problem? Selecting the Problem; Necessity of Defining the Problem; Technique Involved in Defining a Problem	<b>03</b>



<p>February</p>	<p><b>UNIT II Research Design, Data Collection and processing</b>  <b>Meaning of Research Design; Need for Research</b>  <b>Design; Features of a Good Design; Important</b>  <b>Concepts Relating to Research Design; Different</b>  <b>Research Designs; Basic Principles of Experimental Design;</b>  <b>Developing a Research Plan</b>  <b>Collection of Primary Data; Observation</b>  <b>Method; Interview Method; Collection of Data</b>  <b>through Questionnaires; Collection of Data</b>  <b>through Schedules; Other Methods of Data</b>  <b>Collection; Collection of Secondary Data;</b>  <b>Selection of Appropriate Method for Data</b>  <b>Collection; Case Study Method</b></p>	<p><b>UNIT II Research Design, Data Collection and processing</b>  <b>Meaning of Research Design; Need for Research</b>  <b>Design; Features of a Good Design; Important</b>  <b>Concepts Relating to Research Design; Different</b>  <b>Research Designs; Basic Principles of Experimental Design;</b>  <b>Developing a Research Plan</b>  <b>Collection of Primary Data; Observation</b>  <b>Method; Interview Method; Collection of Data</b>  <b>through Questionnaires; Collection of Data</b>  <b>through Schedules; Other Methods of Data</b>  <b>Collection; Collection of Secondary Data;</b>  <b>Selection of Appropriate Method for Data</b>  <b>Collection; Case Study Method</b></p>	<p>13</p>
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February	<b>UNIT III Interpretation and Report Writing</b> Meaning of Interpretation, Why Interpretation?, Technique of Interpretation, Precautions in Interpretation.	<b>UNIT III Interpretation and Report Writing</b> Meaning of Interpretation, Why Interpretation?, Technique of Interpretation, Precautions in Interpretation.	66
March	Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports.	Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports.	67
Signature of Coordinator: <i>S. S. Wadga</i>		Signature of Subject Teacher: <i>S. S. Wadga</i>	

*S. S. Wadga*  
Teacher



Signature of Coordinator:	Signature of Subject Teacher:
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DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI – 400 069**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Histotechnology</b>	
<b>Name of teacher</b>		<b>Ms. Dayanidhi Ghosh, Dr. Priyanka Vartak</b>	
<b>Class: IV B.Sc. Semester-V</b>		<b>Subject: Cell Biology</b>	
<b>Subject Code: USBT501</b>			
<b>No. of lectures Allotted per week:04</b>		<b>No. of lectures Covered per Semester:18</b>	
		<b>No. of lectures Covered per Semester:08</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	<b>Unit - I: Cell cycle</b> <b>Introduction</b> <b>Prokaryotic and Eukaryotic (03)</b> <b>The Early Eukaryotic Cell Cycle and the Role of MPP (03)</b> <b>Yeast and the Molecular Genetics of Cell-Cycle. (04)</b> <b>Apoptosis overview (02)</b> <b>Cell-Division Controls in Multicellular Animals.(05)</b>	<b>Unit - I: Cell cycle</b> <b>Introduction</b> <b>Prokaryotic and Eukaryotic (03)</b> <b>The Early Eukaryotic Cell Cycle and the Role of MPP (03)</b> <b>Yeast and the Molecular Genetics of Cell-Cycle. (04)</b> <b>Apoptosis overview (02)</b> <b>Cell-Division Controls in Multicellular Animals(05)</b>	<b>18</b>



July	<p><b>Unit - 2: Cell signaling and signal transduction: Introduction</b>  <b>General Principles of Cell Signaling (01)</b></p> <p>    <b>Signaling via G-Protein-linked Cell-surface Receptors - (01)</b>  <b>Signaling via Tyrosine-linked Cell-surface Receptors (02)</b>  <b>Signaling: Lessons from Computer-based "Neural Networks" - (02)</b>  <b>Target-Cell Adaptation, The Logic of Intracellular Signaling: Lessons from Computer-based "Neural Networks" - (04)</b></p>	<p><b>Unit - 2: Cell signaling and signal transduction: Introduction</b>  <b>General Principles of Cell Signaling (01)</b></p> <p>    <b>Signaling via G-Protein-linked Cell-surface Receptors - (01)</b>  <b>Signaling via Tyrosine-linked Cell-surface Receptors (02)</b>  <b>Signaling: Lessons from Computer-based "Neural Networks" (02)</b>  <b>Target-Cell Adaptation, The Logic of Intracellular Signaling: Lessons from Computer-based "Neural Networks" - (04)</b></p>	10
July	<p><b>Unit - 4a: Cancer: Introduction, Cancer as a Microevolutionary Process - (04)</b></p>	<p><b>Unit - 4a: Cancer: Introduction, Cancer as a Microevolutionary Process - (04)</b></p>	10
	<p><b>The Molecular Genetics of Cancer (01) Cancer and Cancer Diagnosis</b></p>	<p><b>Unit 4: The Molecular Genetics of Cancer (01)</b>  <b>Cancer and Cancer Diagnosis (01)</b></p>	



<p>August</p>	<p>The Molecular Genetics of Cancer (01) Cancer and Cancer diagnosis (01)</p> <p>Viral Cancer diagnosis and chemotherapy (02)</p> <p>Unit -3 Overview of how the modern era of developmental biology emerged through multidisciplinary approaches - (01)</p> <p>Stages of development- zygote, blastula, gastrula, neural cell fate &amp; commitment - potency- (04)</p> <p>Concept of embryonic stem cells, differential gene expression, terminal differentiation (02),</p> <p>Stages of three germ layers, fate map - (01)</p> <p>Mechanisms of differentiation- cytoplasmic determinants, embryonic induction, (01)</p> <p>Concept of morphogen, tissue and regenerative development Pattern formation- axis specification, positional identification (regional specification), Morphogenetic movements (02)</p> <p>Model organisms in Developmental biology - (01)</p>	<p>The Molecular Genetics of Cancer (01)</p> <p>Viral Cancer diagnosis and chemotherapy (02)</p> <p>Unit -3 Overview of how the modern era of developmental biology emerged through multidisciplinary approaches - (01)</p> <p>Stages of development- zygote, blastula, gastrula, neural cell fate &amp; commitment - potency- (04)</p> <p>Concept of embryonic stem cells, differential gene expression, terminal differentiation (02),</p> <p>Stages of three germ layers, fate map - (01)</p> <p>Mechanisms of differentiation- cytoplasmic determinants, embryonic induction, (01)</p> <p>Concept of morphogen, tissue and regenerative development Pattern formation- axis specification, positional identification (regional specification), Morphogenetic movements (02)</p> <p>Model organisms in Developmental biology - (01)</p>	<p>10</p>
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



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DR. S. RADHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 069**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Microbiology</b>	
<b>Name of teacher</b>		Shweta Khopde, Dayanada Ghosh, Dhruv Kapadia	
<b>Class: TY B.Sc. Semester-V</b>		<b>Subject: Medical Microbiology Subject Code: USBT502</b>	
<b>No. of lectures Allotted per week: 04</b>		<b>No. of lectures Covered per Semester: 14</b>	
<b>No. of lectures Allotted per Semester: 60</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	Unit - 2 Discovery and Design of antimicrobial agents - (01) Classification of Antibacterial agents, Selective toxicity, MIC, MLC - (02) Inhibition of cell wall synthesis (Mode of action (a)) Beta lactam antibiotics: Penicillin, Cephalosporins, Glycopeptides: Vancomycin, Polypeptides: Bacitracin - (02) Inhibition of protein synthesis: Aminoglycosides, Tetracyclines Chloramphenicol, Macrolides Erythromycin - (02)	Unit - 2 Discovery and Design of antimicrobial agents - (01) Classification of Antibacterial agents, Selective toxicity, MIC, MLC - (01) Inhibition of cell wall synthesis (Mode of action (a)) Beta lactam antibiotics: Penicillin, Cephalosporins, Glycopeptides: Vancomycin, Polypeptides: Bacitracin - (02) Inhibition of protein synthesis: Aminoglycosides, Tetracyclines Chloramphenicol, Macrolides Erythromycin - (02)	<b>18</b>



	<p>Injury to Plasma membrane:  Polyoxin – (01)  Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin (01)  Mycostatics -  (01) Antimetabolites:  Sulphonamides, Trimethoprim - (01)  Drug Resistance: Mechanism, Origin and transmission of drug resistance - (01)  Use and misuse of antimicrobial agents - (01)  Antifungal drugs, Antiviral drugs (02)</p>	<p>Injury to Plasma membrane:  Polyoxin – (01)  Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin (01)  Mycostatics -  (01) Antimetabolites:  Sulphonamides, Trimethoprim - (01)  Drug Resistance: Mechanism, Origin and transmission of drug resistance – (02)  Use and misuse of antimicrobial agents - (01)  Antifungal drugs, Antiviral drug (02)</p>	
August	<p>Unit - 1 Introduction to virology:  Position in biological spectrum:  Virus properties - (02)  General structure of viruses  Baltimore Classification and Taxonomy (ICTV) - (02)  Cultivation of viruses - (02)  Reproduction of ds DNA phages  Hepatitis A/dNA (influenza) (01)  Animal viruses and plant (TMV)virus - (02)  Virus purification and assays - (01)  Cytocidal infections and cell damage, Viroids and Prions (01)</p>	<p>Unit - 1 Introduction to virology:  Position in biological spectrum:  Virus properties - (02)  General structure of viruses  Baltimore Classification and Taxonomy (ICTV) - (02)  Cultivation of viruses - (02)  Reproduction of ds DNA phages  Hepatitis A/dNA (influenza) (01)  Animal viruses and plant (TMV)virus - (02)  Virus purification and assays - (01)  Cytocidal infections and cell damage, Viroids and Prions (01)</p>	15
June	<p>Unit 3: Principle, instrumentation, working and applications of  Fluorescence Spectroscopy - (03)  Luminescence - (03)  Infrared Spectroscopy - (02)  Light scattering spectroscopy (03) Infrared Spectroscopy introduction (01)  Atomic absorption Spectroscopy - (03)</p>	<p>Unit 3: Principle, instrumentation, working and applications of: Fluorescence Spectroscopy - (02) Luminescence - (03)  Infrared Spectroscopy - (02)  Light scattering spectroscopy (02) Infrared Spectroscopy introduction (01)  Atomic absorption Spectroscopy - (02)</p>	15



July	Unit 4: Principle, working and applications of Affinity chromatography Ion-exchange chromatography Molecular sieve exclusion chromatography HPLC - Method development and validation	Unit 4: Principle, working and applications of Affinity chromatography - (02) Ion-exchange chromatography - (02) Molecular sieve exclusion chromatography - (01) HPLC - Method development and validation - (01)	18
	Isotopes in Biology: Nature of radioactivity Introduction to Scintillation counter, Detection Techniques using GM counter, Scintillation counter, autoradiography Applications of Tracer techniques in Biology -	Isotopes in Biology: Nature of radioactivity - (01) Introduction to Scintillation counter (01), Detection Techniques using GM counter, Scintillation counter, autoradiography - (01) Applications of Tracer techniques in Biology - (01)	
Signature of Coordinator: <i>A. Shinde</i>		Signature of Subject Teacher: <i>A. Shinde</i>	

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**Teaching Plan and Implementation Record (2023-24)**

Department		Biotechnology	
Name of teacher		Dr. Priyanka Vartak	
Class: TY B.Sc. Semester-V Biology		Subject: Genetics and Molecular Subject Code: USBT503	
No. of lectures Allotted per week: 04 No. of lectures Covered per Semester: 49 No. of lectures Allotted per Semester: 60			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	Unit 1: Genetic engineering of plants: Methodology (02)	Unit 1: Genetic engineering of plants: Methodology (02)	14



	Plant transformation with the Ti plasmid of <i>Agrobacterium</i> , Ti plasmid derived vector system (02)	Plant transformation with the Ti plasmid of <i>Agrobacterium</i> , Ti plasmid derived vector system (02)	
	Transgenic plants: Physical methods of transferring genes to plants: electroporation (02)  Microprojectile bombardment, liposome mediated (02), Vectors for plant cells (04)  Protoplast fusion (01), Improvement of seed quality protein(02)	Transgenic plants: Physical methods of transferring genes to plants: electroporation (02)  Microprojectile bombardment, liposome mediated (02), Vectors for plant cells (04)  Protoplast fusion (01), Improvement of seed quality protein(02)	
July	Unit 2 - Transgenic micro-methodology-retroviral method (01), DNA microinjection, EE method (02), genetic manipulation with <i>cre-loxP</i> (02)	Unit 2 - Transgenic micro-methodology-retroviral method (01), DNA microinjection, EE method (02), genetic manipulation with <i>cre-loxP</i> (02)	14



2

10

<p><b>July</b></p>	<p>Vectors for animal cells (02),  Transgenic animal recombination  system (07), Cloning livestock by  nuclear transfer (02)  Green Fluorescent Protein (01),  Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids  (pUC series), Cosmids,  phagemids M13, shuttle vectors,  YAC vectors,  expression vectors pIT (04),  Gene cloning-Isolation and  purification of DNA, Isolation of  gene of interest: Restriction  digestion, electroporation,  blotting, cutting, and joining  DNA, methods of gene transfer in  prokaryotes and eukaryotes (03)  Expression of cloned DNA  molecules (01), Recombinant  selection and screening methods:  genetic</b></p>	<p>Vectors for animal cells (02),  Transgenic animal recombination  system (07), Cloning livestock by  nuclear transfer (02)  Green Fluorescent Protein (01),  Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids  (pUC series), Cosmids,  phagemids M13, shuttle vectors,  YAC vectors,  expression vectors pIT (04),  Gene cloning-Isolation and  purification of DNA, Isolation of  gene of interest: Restriction  digestion, electroporation,  blotting, cutting, and joining  DNA, methods of gene transfer in  prokaryotes and eukaryotes (03)  Expression of cloned DNA  molecules (01), Recombinant  selection and screening methods:  genetic</b></p>	<p><b>86</b></p>
<p><b>August</b></p>	<p>Vectors for animal cells (02),  Transgenic animal recombination  system (07), Cloning livestock by  nuclear transfer (02)  Green Fluorescent Protein (01),  Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids  (pUC series), Cosmids,  phagemids M13, shuttle vectors,  YAC vectors,  expression vectors pIT (04),  Gene cloning-Isolation and  purification of DNA, Isolation of  gene of interest: Restriction  digestion, electroporation,  blotting, cutting, and joining  DNA, methods of gene transfer in  prokaryotes and eukaryotes (03)  Expression of cloned DNA  molecules (01), Recombinant  selection and screening methods:  genetic</b></p>	<p>Vectors for animal cells (02),  Transgenic animal recombination  system (07), Cloning livestock by  nuclear transfer (02)  Green Fluorescent Protein (01),  Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids  (pUC series), Cosmids,  phagemids M13, shuttle vectors,  YAC vectors,  expression vectors pIT (04),  Gene cloning-Isolation and  purification of DNA, Isolation of  gene of interest: Restriction  digestion, electroporation,  blotting, cutting, and joining  DNA, methods of gene transfer in  prokaryotes and eukaryotes (03)  Expression of cloned DNA  molecules (01), Recombinant  selection and screening methods:  genetic</b></p>	<p><b>87</b></p>



	<p>immunoblotting, Southern and Western analysis, nucleic acid hybridization, RFLP, RST (02)</p> <p>Maximization of expression of cloned DNA molecules (01),</p> <p>Cloning strategies- genomic DNA libraries, cDNA libraries (02), chromosome walking (01)</p> <p>Chromosome jumping (01)</p>	<p>immunoblotting, Southern and Western analysis, nucleic acid hybridization, RFLP, RST (02)</p> <p>Maximization of expression of cloned DNA molecules (01),</p> <p>Cloning strategies- genomic DNA libraries, cDNA libraries (02), chromosome walking (01)</p> <p>Chromosome jumping (01)</p>	
Assign-	<p>Unit 4 - Maxam Gilbert's method, Sanger's dideoxy method (02), Automated DNA sequencing, Pyrosequencing (03), Human genome mapping and its implications in health and disease (03)</p>	<p>Unit 4 - Maxam Gilbert's method, Sanger's dideoxy method (02), Automated DNA sequencing, Pyrosequencing (03), Human genome mapping and its implications in health and disease (03)</p>	04
Separator-	<p>RNAi, ZNF(Zinc Finger nucleases) (02)</p> <p>TALENs(Transcription Activator Like Effector Nucleases) (02)</p> <p>CRISPR/Cas system(Clustered Regularly Interspaced Repeats) (02)</p>	<p>RNAi, ZNF(Zinc Finger nucleases) (02)</p> <p>TALENs(Transcription Activator Like Effector Nucleases) (02)</p> <p>CRISPR/Cas system(Clustered Regularly Interspaced Repeats) (02)</p>	04
Signature of Coordinator:	<i>A. M. ...</i>	Signature of Subject Teacher:	<i>P. ...</i>

<p>LAXMI CHARITABLE TRUSTS</p> <p>SHRI H. L. L. &amp; SHRI M. Y. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</p> <p>DR. S. RADHAKRISHNAN MARG, ANDHRI (3), MUMBAI - 400 099</p>	
<p>Teaching Plan and Implementation Record (2023-24)</p>	
Department	Bio-Technology
Name of teacher	Manoja Khasale, Dnyanada Ghaffi
Class: TY B.Sc. Semester-V	Subject: Marine Biotechnology
Subject Code: USBT504	



No. of lectures Allotted per week:  
04 Semester (33)

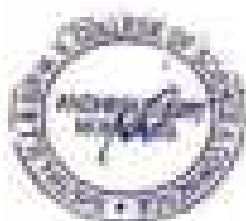
No. of lectures Covered per  
No. of lectures Allotted per Semester:  
40





Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	<p>Unit 2 - Drugs from Marine organisms: Pharmaceutical compounds from marine flora and fauna - marine toxins, antiviral and antimicrobial agents (04), Approved Marine Drugs as Pharmaceuticals (02) Marine Microbial Enzymes (01) Marine Extracytomes and Their Significance (04) Marine Natural products and its Challenges (02) Current Use of Marine Microbial Enzymes (02)</p>	<p>Unit 2 - Drugs from Marine organisms: Pharmaceutical compounds from marine flora and fauna - marine toxins, antiviral and antimicrobial agents (04), Approved Marine Drugs as Pharmaceuticals (4) Marine Microbial Enzymes (01) Marine Extracytomes and Their Significance (04) Marine Natural products and its Challenges (02) Current Use of Marine Microbial Enzymes (02)</p>	15
July	<p>Unit 3 - Marine Functional Foods: Marine Sources as Healthy Foods or Reservoirs of Functional Ingredients (02) Marine-Derived Ingredients with Biological Properties (03) Functional Foods Incorporating Marine-Derived Ingredients (02) Polyunsaturated Fatty Acids (01), Carotenoids, Soluble Calcium, Fish Collagen and Gelatin (03) Marine Nutraceuticals (Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02) Marine Proteins (01) Marine Nutraceuticals (Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02)</p>	<p>Unit 3 - Marine Functional Foods: Marine Sources as Healthy Foods or Reservoirs of Functional Ingredients (03) Marine-Derived Ingredients with Biological Properties (03) Functional Foods Incorporating Marine-Derived Ingredients (02) Polyunsaturated Fatty Acids (1), Carotenoids, Soluble Calcium, Fish Collagen and Gelatin (04) Marine Proteins (01) Marine Nutraceuticals (Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02)</p>	11



August	<p><b>Unit 1 -Introduction to Marine Biotechnology (01)</b> The marine ecosystem and its functioning: intertidal, estuarine, soft marsh, mangrove, coral reef, coastal &amp; deep sea ecosystems Hydrothermal vents (04)</p> <p>Bioprospecting, Marine Microbial Habitats and Their Biotechnologically relevant Microorganisms (01) Methods for Microbial Bioprospecting in Marine Environments(02), Biotechnological Potential of Marine Microbes (03)</p> <p>Biactive compounds from other Marine Organisms: Fungi, Microalgae(01) Sponges, Actinomycetes, sponges (01)</p>	<p><b>Unit 1 -Introduction to Marine Biotechnology (04)</b> The marine ecosystem and its functioning: intertidal, estuarine, soft marsh, mangrove, coral reef, coastal &amp; deep sea ecosystems Hydrothermal vents (04)</p> <p>Bioprospecting, Marine Microbial Habitats and Their Biotechnologically relevant Microorganisms (01) Methods for Microbial Bioprospecting in Marine Environments(02), Biotechnological Potential of Marine Microbes (03)</p> <p>Biactive compounds from other Marine Organisms: Fungi, Microalgae(01) Sponges, Actinomycetes, sponges (01) (03)</p>	12
August	<p><b>Unit 4 - Marine Bioreactors, Marine Secondary Metabolites, Marine Proteins, Marine Lipids (01), Cosmetics from Marine Sources: Scenario of Marine Sources in the Cosmetic Industry(01) Cosmetics: Definition and Regulations (03) Major Functions of Some Marine Compounds</b></p>	<p><b>Unit 4 - Marine Bioreactors, Marine Secondary Metabolites, Marine Proteins, Marine Lipids (01), Cosmetics from Marine Sources: Scenario of Marine Sources in the Cosmetic Industry (01), Cosmetics: Definition and Regulations (03) Major Functions of Some Marine Compounds in Cosmetics and Cosmeceuticals (02),</b></p>	13



	in Cosmetics and Cosmeceuticals (02) Target Organ and Cosmetic Delivery Systems (02)  Unit 4: Components of Cosmetics (02) Treatments Based on Marine Resources, Products Based on Marine Resources (02)	Target Organ and Cosmetic Delivery Systems (02)  Unit 4 - Components of Cosmetics (02) Treatments Based on Marine Resources, Products Based on Marine Resources (02)	
Signature of Coordinator: 		Signature of Subject Teacher: 	

<b>LAXMI CHARITABLE TRUSTS</b> <b>SHRI L.U.J. &amp; SHRI M.V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 069</b>			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Shweta Khogde, Priya Vidwadharna,</b>	
<b>Class: TY B.Sc. Semester-V</b>		<b>Subject: Applied Component-</b>	
<b>Biosafety</b>		<b>Subject Code: USBTAC</b>	
<b>No. of lectures Allotted per week: 04</b>		<b>No. of lectures Covered per</b>	
<b>Semester: 27</b>		<b>No. of lectures Allotted per Semester: 48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	Unit 1 - Introduction (01), Biological Risk Assessment, Hazardous Characteristics of an Agent (02), Genetically modified agent hazards (01), Cell cultures (01), Hazardous	Unit 1 - Introduction (01), Biological Risk Assessment, Hazardous Characteristics of an Agent (02), Genetically modified agent hazards (01), Cell cultures (01), Hazardous	<b>10</b>



	Characteristics of Laboratory Procedures (01) Potential Hazards Associated with Work Practices (02), Safety Equipment and Facility Safeguards (03)	Characteristics of Laboratory Procedures (01) Potential Hazards Associated with Work Practices (02), Safety Equipment and Facility Safeguards (03)	
July	Pathogenic risk and management (02) Unit 2: Concept of GLP (01), Practising GLP (01), Guidelines to GLP (02), Documentation of Laboratory work (01), Preparation of SOPs (02) Validation of methods, Documentation of results, Audit & Audit reports (03) Calibration records (01)	Pathogenic risk and management (02) Unit 2: Concept of GLP (01), Practising GLP (01), Guidelines to GLP (02), Documentation of Laboratory work (01), Preparation of SOPs (02) Validation of methods, Documentation of results, Audit & Audit reports (03) Calibration records (01)	16
September	Unit 3: Microbial Contamination in food and pharma product (03) Some common microbial contaminants(02 ) Some common microbial contaminants(01) , Microbiological Assays for pharmaceutical products(04), Regulatory Microbiological testing in pharmaceuticals (03)	Unit 3: Microbial Contamination in food and pharma product (03) Some common microbial contaminants(01 ) Some common microbial contaminants(01) , Microbiological Assays for pharmaceutical products(1), Regulatory Microbiological testing in pharmaceuticals (1)	03
September	Unit 4 - Concepts on bioreality in Biotechnology (02), Regulating food and food ingredients (03), Genetically engineered crops (01)  Regulating rDNA technology (05), Genetically engineered crops, livestock Biotech (02), Contemporary issues in Biotech (02)	Unit 4 - Concepts on bioreality in Biotechnology (02), Regulating food and food ingredients (03), Genetically engineered crops (01)  Regulating rDNA technology (02), Genetically engineered crops, livestock Biotech (02), Contemporary issues in Biotech (02)	06
	Contemporary issues in Biotech (02)		



Signature of Coordinator:	Signature of Subject Teacher:
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**DR. B. RAJAKRISHNAN MARG, ANHURI (E), MUMBAI - 400 069**

**Teaching Plan and Implementation Record (2023-24)**

Department	Biotechnology
Name of teacher	Ms. Deepanshi Ghadi, Dr. Priyanka Yartak
Class: IV B.Sc. Semester-V	Subject: Cell Biology
Subject Code: LB12501	
No. of lectures Allotted per week: 04	No. of lectures Covered per Semester: 45 No. of lectures Covered per Semester: 40

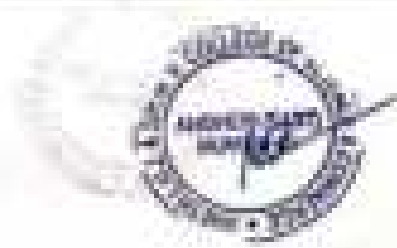
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	Unit - I Cell cycle Introduction Prokaryotes and Eukaryotes. (03) The Early Embryonic Cell Cycle and the Role of MPF (03) Yeasts and the Molecular Genetics of Cell-Cycle. (04) Apoptosis overview (02) Cell-Division Controls in Multicellular Animals (03)	Unit - I Cell cycle Introduction Prokaryotic and Eukaryotic. (03) The Early Embryonic Cell Cycle and the Role of MPF (03) Yeasts and the Molecular Genetics of Cell-Cycle. (04) Apoptosis overview (02) Cell-Division Controls in Multicellular Animals (03)	18



July	<p><b>Unit - 2: Cell signalling and signal transduction: Introduction</b>  <b>General Principles of Cell Signaling</b> (03)</p> <p>    <b>Signaling via G-Protein-linked Cell-Surface Receptors</b> - (05)</p> <p>    <b>Signaling via Tyrosine-linked Cell-Surface Receptors</b> (02)</p> <p>    <b>Signaling: Lessons from Computer-based "Neural Networks"</b>- (02)</p> <p>    <b>Target-Cell Adaptation, The Logic of Intracellular Signaling: Lessons from Computer-based "Neural Networks"</b>- (04)</p>	<p><b>Unit - 2: Cell signalling and signal transduction: Introduction</b>  <b>General Principles of Cell Signaling</b> (03)</p> <p>    <b>Signaling via G-Protein-linked Cell-Surface Receptors</b> - (03)</p> <p>    <b>Signaling via Tyrosine-linked Cell-Surface Receptors</b> (02)</p> <p>    <b>Signaling: Lessons from Computer-based "Neural Networks"</b>- (02)</p> <p>    <b>Target-Cell Adaptation, The Logic of Intracellular Signaling: Lessons from Computer-based "Neural Networks"</b>- (04)</p>	10
July	<p><b>Unit - 4: Cancer: Introduction, Cancer as a Multistep Process</b> - (04)</p>	<p><b>Unit - 4: Cancer: Introduction, Cancer as a Multistep Process</b> - (04)</p>	10
	<p><b>The Molecular Genetics of Cancer</b> (05) <b>Cancer and Cancer Diagnosis</b></p>	<p><b>Unit 4: The Molecular Genetics of Cancer</b> (05)  <b>Cancer and Cancer diagnosis</b> (01)</p>	



<p>Angen</p>	<p>The Molecular Genetics of Cancer (03) Cause and Cancer diagnosis (01)        Virus Cancer diagnosis and chemotherapy (02)</p> <p>Unit -3 Overview of how the modern era of developmental biology emerged through multidisciplinary approaches - (03)        Stages of development- zygote, blastula, gastrula, neural cell fate &amp; commitment - potency- (04)        Concept of embryonic stem cells, differential gene expression, terminal differentiation (02),        lineage of three germ layers, fate map - (01)        Mechanisms of differentiation- cytoplasmic determinants, embryonic induction, (01)        Concept of morphogen, tissue and regulatory development Pattern formation- axis specification, positional identification (regional specification), Morphogenetic movements (02)        Model organisms in Developmental biology - (01)</p>	<p>The Molecular Genetics of Cancer (03)        Virus Cancer diagnosis and chemotherapy (02)</p> <p>Unit -3 Overview of how the modern era of developmental biology emerged through multidisciplinary approaches - (03)        Stages of development- zygote, Blastula, gastrula, neural cell fate &amp; commitment - potency- (04)        Concept of embryonic stem cells, differential gene expression, terminal differentiation (02),        lineage of three germ layers, fate map - (01)        Mechanisms of differentiation- cytoplasmic determinants, embryonic induction, (01)        Concept of morphogen, tissue and regulatory development Pattern formation- axis specification, positional identification (regional specification), Morphogenetic movements (02)        Model organisms in Developmental biology - (01)</p>	<p>10</p>
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



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**DL. S. RADHAKRISHNAN MARG, ANERDI (E), MUMBAI - 400 009**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		<b>Shweta Khatke, Deepanshi Ghosh, Divyani Kapadia</b>	
<b>Class: TY B.Sc. Semester-V</b>		<b>Subject: Medical Microbiology</b> <b>Subject Code: USBT5B2</b>	
<b>No. of lectures Allotted per week: 04      No. of lectures Covered per Semester: 51</b>			
<b>No. of lectures Allotted per Semester: 60</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	<b>Unit - 2 Discovery and Design of antimicrobial agents - (01)</b> <b>Classification of Antimicrobial agents, Selective toxicity, MIC, MLC - (02)</b> <b>Inhibition of cell wall synthesis (Mode of action for): Beta lactam antibiotics: Penicillin, Cephalosporins; Glycopeptides: Vancomycin; Polypeptides: Bacitracin - (02)</b> <b>Inhibition of protein synthesis: Aminoglycosides, Tetracyclines Chloramphenicol, Mupirocin/tyrothricin- (02)</b>	<b>Unit - 2 Discovery and Design of antimicrobial agents - (01)</b> <b>Classification of Antimicrobial agents, Selective toxicity, MIC, MLC - (01)</b> <b>Inhibition of cell wall synthesis (Mode of action for): Beta lactam antibiotics: Penicillin, Cephalosporins; Glycopeptides: Vancomycin; Polypeptides: Bacitracin - (02)</b> <b>Inhibition of protein synthesis: Aminoglycosides, Tetracyclines Chloramphenicol, Mupirocin/tyrothricin - (02)</b>	<b>10</b>



AS

	<p>Injury to Plasma membrane: Polycystin - (01) Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin (01) Mammalianly - (01) Antimetabolites: Sulphonamides, Trimethoprim - (01) Drug Resistance: Mechanism, Origin and transmission of drug resistance - (01) Use and misuse of antimicrobial agents - (01) Antifungal drugs, Antiviral drugs (02)</p>	<p>Injury to Plasma membrane: Polycystin - (01) Inhibition of Nucleic acid synthesis: Quinolones, Rifampicin (01) Mammalianly - (01) Antimetabolites: Sulphonamides, Trimethoprim - (01) Drug Resistance: Mechanism, Origin and transmission of drug resistance - (02) Use and misuse of antimicrobial agents - (01) Antifungal drugs, Antiviral drugs (02)</p>	
August	<p>Unit - 1 Introduction to virology- Position in biological spectrum; Virus properties - (02) General structure of viruses Baltimore Classification and Taxonomy(ICTV) - (02) Cultivation of viruses - (02) Reproduction of ds DNA phages Hepatitis ssRNA (influenza) (01) Animal viruses and plant (TMV)virus - (02) Virus purification and assays - (01) Cytocidal infections and cell damage, Viroids and Prions (01)</p>	<p>Unit - 1 Introduction to virology- Position in biological spectrum; Virus properties - (02) General structure of viruses Baltimore Classification and Taxonomy(ICTV) - (02) Cultivation of viruses - (02) Reproduction of ds DNA phages Hepatitis ssRNA (influenza) (01) Animal viruses and plant (TMV)virus - (02) Virus purification and assays - (01) Cytocidal infections and cell damage, Viroids and Prions (01)</p>	13
June	<p>Unit 3: Principle, instrumentation, working and applications of Fluorescence Spectrometry - (03) Luminescence - (03) Infrared Spectrometry - (02) Light scattering spectrometry (03) Infrared Spectrometry introduction (01) Atomic absorption Spectrometry - (02)</p>	<p>Unit 3: Principle, instrumentation, working and applications of Fluorescence Spectrometry - (02) Luminescence - (02) Infrared Spectrometry - (03) Light scattering spectrometry (02) Infrared Spectrometry introduction (01) Atomic absorption Spectrometry - (02)</p>	11



July	Unit 4: Principle, working and applications of Affinity chromatography Ion-exchange chromatography Molecular (size) exclusion chromatography HPLC - Method development and validation	Unit 4: Principle, working and applications of Affinity chromatography - (02) Ion-exchange chromatography - (02) Molecular (size) exclusion chromatography - (01) HPLC - Method development and validation- (03)	13
	Isotopes in Biology: Nature of radioactivity Interaction in Scintillation counter, Detection Techniques using GM counter, Scintillation counter, autoradiography Applications of Tracer techniques in Biology -	Isotopes in Biology: Nature of radioactivity - (01) Interaction in Scintillation counter (01), Detection Techniques using GM counter, Scintillation counter, autoradiography - (01) Applications of Tracer techniques in Biology - (01)	
Signature of Coordinator: <i>A. Shinde</i>		Signature of Subject Teacher: <i>P. Shinde</i>	

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**DR. S. RADHAKRISHNAN MARG, ANDHUR (E), MUMBAI - 400 060**

**Tracking Plan and Implementation Report (2023-24)**

Department		Biotechnology	
Name of teacher		Dr. Priyanka Yartak	
Class: IV B.Sc. Semester-V		Subject: Genomes and Molecular Biology	
		Subject Code: USBT543	
No. of lectures Allotted per week: 04 No. of lectures Covered per Semester: 09			
No. of lectures Allotted per Semester: 08			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	Unit 1- Genetic engineering of plants; Methodology (02)	Unit 1- Genetic engineering of plants; Methodology (02)	14





	Plant transformation with the Ti plasmid of <i>A. tumefaciens</i> , Ti plasmid derived vector system (03)	Plant transformation with the Ti plasmid of <i>A. tumefaciens</i> , Ti plasmid derived vector system (02)	
<b>July</b>	<p>Transgenic plants: Physical methods of transferring genes to plants: electroporation (02)</p> <p>Microprojectile bombardment, species mediated (02), Vectors for plant cells (04)</p> <p>Protoplast fusion (01), Improvement of seed quality protein(02)</p> <p>Unit 2 - Transgenic rice- methodology-retroviral method (01), DNA microinjection, ES method (02), genetic manipulation with <i>ori</i>-<i>lacP</i> (02)</p>	<p>Transgenic plants: Physical methods of transferring genes to plants: electroporation (02)</p> <p>Microprojectile bombardment, species mediated (02), Vectors for plant cells (04)</p> <p>Protoplast fusion (01), Improvement of seed quality protein(02)</p> <p>Unit 2 - Transgenic rice- methodology-retroviral method (01), DNA microinjection, ES method (02), genetic manipulation with <i>ori</i>-<i>lacP</i> (02)</p>	<b>14</b>



<p><b>July</b></p>	<p>Vectors for animal cells (02),          Transgenic animals/recombination          systems (02), Cloning livestock by          nuclear transfer (02)          Green Fluorescent Protein (01),          Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids          (pUC series), Cosmids,          phagemids M13, shuttle vectors,          YAC vectors,          expression vectors pET (04),          Gene cloning- Isolation and          purification of DNA; Isolation of          gene of interest: Restriction          digestion, electrophoresis,          ligation, cutting, and joining          DNA, methods of gene transfer in          prokaryotes and eukaryotes (03)          Expression of cloned DNA          molecules (01) Recombinant          selection and screening methods:          genetic</b></p>	<p>Vectors for animal cells (02),          Transgenic animals/recombination          systems (02), Cloning livestock by          nuclear transfer (02)          Green Fluorescent Protein (01),          Transgenic fish (01)</p> <p><b>Unit 3 - Cloning vectors-Plasmids          (pUC series), Cosmids,          phagemids M13, shuttle vectors,          YAC vectors,          expression vectors pET (04),          Gene cloning- Isolation and          purification of DNA; Isolation of          gene of interest: Restriction          digestion, electrophoresis,          ligation, cutting, and joining          DNA, methods of gene transfer in          prokaryotes and eukaryotes (03)          Expression of cloned DNA          molecules (01), Recombinant          selection and screening methods:          genetic</b></p>	<p><b>64</b></p>
<p><b>August</b></p>	<p><b>Unit 3 - Cloning vectors-Plasmids          (pUC series), Cosmids,          phagemids M13, shuttle vectors,          YAC vectors,          expression vectors pET (04),          Gene cloning- Isolation and          purification of DNA; Isolation of          gene of interest: Restriction          digestion, electrophoresis,          ligation, cutting, and joining          DNA, methods of gene transfer in          prokaryotes and eukaryotes (03)          Expression of cloned DNA          molecules (01) Recombinant          selection and screening methods:          genetic</b></p>	<p><b>Unit 3 - Cloning vectors-Plasmids          (pUC series), Cosmids,          phagemids M13, shuttle vectors,          YAC vectors,          expression vectors pET (04),          Gene cloning- Isolation and          purification of DNA; Isolation of          gene of interest: Restriction          digestion, electrophoresis,          ligation, cutting, and joining          DNA, methods of gene transfer in          prokaryotes and eukaryotes (03)          Expression of cloned DNA          molecules (01), Recombinant          selection and screening methods:          genetic</b></p>	<p><b>67</b></p>



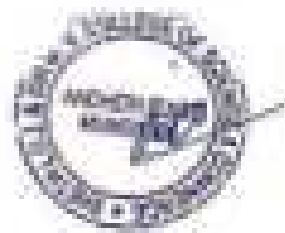
	<p>Immunoblotting, Northern and Western analysis, nucleic acid hybridization, HAIT, IHT (02)</p> <p>Maximization of expression of cloned DNA molecules (01)</p> <p>Cloning strategies-genomic DNA libraries, cDNA libraries (02)</p> <p>chromosome walking (01)</p> <p>Chromosome jumping (01)</p>	<p>Immunoblotting, Northern and Western analysis, nucleic acid hybridization, HAIT, IHT (02)</p> <p>Maximization of expression of cloned DNA molecules (01)</p> <p>Cloning strategies-genomic DNA libraries, cDNA libraries (02)</p> <p>chromosome walking (01)</p> <p>Chromosome jumping (01)</p>	
August	<p>Unit 4 - Maxam Gilbert's method, Sanger's dideoxy method (01), Automated DNA sequencing, Pyrosequencing (02), Human genome mapping and its implications in health and disease (02)</p>	<p>Unit 4 - Maxam Gilbert's method, Sanger's dideoxy method (02), Automated DNA sequencing, Pyrosequencing (02), Human genome mapping and its implications in health and disease (02)</p>	04
September	<p>RNAi, ZFN (Zinc finger nucleases) (02)</p> <p>TALENs (Transcription Activator Like Effector Nucleases) (02)</p> <p>CRISPR/Cas systems (Clustered Regularly Interspaced Repeats) (02)</p>	<p>RNAi, ZFN (Zinc finger nucleases) (04)</p> <p>TALENs (Transcription Activator Like Effector Nucleases) (01)</p> <p>CRISPR/Cas systems (Clustered Regularly Interspaced Repeats) (01)</p>	08
Signature of Coordinator: 		Signature of Subject Teacher: 	

<p>LAXMI CHARITABLE TRUSTS          SHRI L. J. &amp; SRI M. V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE          DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 049</p>	
<p>Teaching Plan and Implementation Record (2023-24)</p>	
Department	Discipline(s)
Name of teacher	Sareesha Chopale, Dayanada Ghosh
Class: IY B.Sc. Semester-V Subject Code: LBST04	Subject: Marker Biotechnology



No. of lectures Allotted per week:  
04 Semester: 52

No. of lectures Covered per  
No. of lectures Allotted per Semester:  
60



Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	Unit 1 - Drugs from Marine organisms: Pharmaceutical compounds from marine flora and fauna - marine toxins, antiviral and antineoplastic agents (04), Approved Marine Drugs as Pharmaceuticals (02) Marine Microbial Enzymes (01) Marine Extracyclics and Their Significance (04) Marine Natural products and its Challenges (02) Current Use of Marine Microbial Enzymes (02)	Unit 1 - Drugs from Marine organisms: Pharmaceutical compounds from marine flora and fauna - marine toxins, antiviral and antineoplastic agents (04), Approved Marine Drugs as Pharmaceuticals (4) Marine Microbial Enzymes (01) Marine Extracyclics and Their Significance (04) Marine Natural products and its Challenges (02) Current Use of Marine Microbial Enzymes (02)	15
July	Unit 3 - Marine Functional Foods: Marine Sources as Healthy Foods or Reservoirs of Functional Ingredients (03) Marine-Derived Ingredients with Biological Properties (03) Functional Foods Incorporating Marine-Derived Ingredients (02) Polyunsaturated Fatty Acids (01), Carotenoids, Soluble Calcium, Fish Collagen and Gelatin (03) Marine Nutraceuticals: Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02) Marine Probiotics (01) Marine Nutraceuticals: Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02)	Unit 3 - Marine Functional Foods: Marine Sources as Healthy Foods or Reservoirs of Functional Ingredients (03) Marine-Derived Ingredients with Biological Properties (03) Functional Foods Incorporating Marine-Derived Ingredients (02) Polyunsaturated Fatty Acids (1), Carotenoids, Soluble Calcium, Fish Collagen and Gelatin (04) Marine Probiotics (01) Marine Nutraceuticals: Marine Bioactives as Potential Nutraceuticals, Functional Carbohydrates (02)	11



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August	<p><b>Unit 1 - Introduction to Marine Biotechnology (01)</b> The marine ecosystem and its functioning: intertidal, estuarine, salt marsh, mangrove, coral reef, coastal &amp; deep sea ecosystems</p> <p><b>Hydrothermal vents (02)</b></p> <p><b>Bioprospecting, Marine Microbial Metabolites and Their Biotechnologically relevant Microorganisms (01)</b> Methods for Microbial Bioprospecting in Marine Environments(02), Biotechnological Potential of Marine Microbes (03)</p> <p><b>Bioactive compounds from other Marine Organisms: fungi, Microalgae(01) Seaweeds, Actinomycetes, sponges (01)</b></p>	<p><b>Unit 1 - Introduction to Marine Biotechnology (01)</b> The marine ecosystem and its functioning: intertidal, estuarine, salt marsh, mangrove, coral reef, coastal &amp; deep sea ecosystems</p> <p><b>Hydrothermal vents (02)</b></p> <p><b>Bioprospecting, Marine Microbial Metabolites and Their Biotechnologically relevant Microorganisms (01)</b></p> <p><b>Methods for Microbial Bioprospecting in Marine Environments(02), Biotechnological Potential of Marine Microbes (03)</b></p> <p><b>Bioactive compounds from other Marine Organisms: fungi, Microalgae(01) Seaweeds, Actinomycetes, sponges (01) (13)</b></p>	12
August	<p><b>Unit 4 - Marine Biostimulants, Marine Secondary Metabolites, Marine Proteins, Marine Lipids (03), Cosmetics from Marine Sources: Scenario of Marine Sources in the Cosmetic Industry(03) Cosmetics: Definition and Regulations (03) Major Functions of Some Marine Compounds</b></p>	<p><b>Unit 4 - Marine Biostimulants, Marine Secondary Metabolites, Marine Proteins, Marine Lipids (03), Cosmetics from Marine Sources: Scenario of Marine Sources in the Cosmetic Industry (03), Cosmetics: Definition and Regulations (03) Major Functions of Some Marine Compounds in Cosmetics and Cosmetics(03),</b></p>	13



	in Cosmetics and Cosmeceuticals (02) Target Organ and Cosmetic Delivery Systems (02)  Unit 4: Components of Cosmetics (02) Treatments Based on Marine Resources, Products Based on Marine Resources (02)	Target Organ and Cosmetic Delivery Systems (02)  Unit 4 - Components of Cosmetics: (02) Treatments Based on Marine Resources, Products Based on Marine Resources (02)	
Signature of Coordinator: <i>[Signature]</i>	Signature of Subject Teacher: <i>[Signature]</i>		

<b>LAXMI CHARITABLE TRUST'S</b> <b>SRIETH L.J.J. &amp; SRI M.V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RADHAKRISHNAN MARG, ANANDI (3), MUMBAI - 400 099</b>			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Shweta Khotale, Priya Vishwakarma,</b>	
<b>Class: TY B.Sc. Semester-V</b>		<b>Subject: Applied Component-</b>	
<b>Biosafety</b>		<b>Subject Code: USBTAC</b>	
<b>No. of lectures Allotted per week: 04</b> <b>Semester: 27</b>		<b>No. of lectures Covered per</b> <b>No. of lectures Allotted per Semester: 48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>June</b>	Unit 1 - Introduction (01), Biological Risk Assessment, Hazardous Characteristics of an Agent (02), Genetically modified agent hazards (01), Cell culture (01), Hazardous	Unit 1 - Introduction (01), Biological Risk Assessment, Hazardous Characteristics of an Agent (02), Genetically modified agent hazards (01), Cell culture (01), Hazardous	<b>10</b>



	Characteristics of Laboratory Procedures (01) Potential Hazards Associated with Work Practices (02), Safety Equipment and Facility Subgraphs (03)	Characteristics of Laboratory Procedures (01) Potential Hazards Associated with Work Practices (02), Safety Equipment and Facility Subgraphs (03)	
July	Pathogenic risk and management (02) Unit 2: Concept of GLP (01), Practicing GLP (01), Guidelines to GLP (02), Documentation of Laboratory work (01), Preparation of SOPs (02) Validation of methods, Documentation of results, Audit & Audit reports (03) Calibration records (01)	Pathogenic risk and management (02) Unit 2: Concept of GLP (01), Practicing GLP (01), Guidelines to GLP (02), Documentation of Laboratory work (01), Preparation of SOPs (02) Validation of methods, Documentation of results, Audit & Audit reports (03) Calibration records (01)	16
September	Unit 3- Microbial Contamination in food and pharma product (03) Some common microbial contaminants(02 ) Some common microbial contaminants(01) , Microbiological Assays for pharmaceutical products(04), Regulatory Microbiological testing in pharmaceuticals (01)	Unit 3- Microbial Contamination in food and pharma product (03) Some common microbial contaminants(01 ) Some common microbial contaminants(01) , Microbiological Assays for pharmaceutical products(1), Regulatory Microbiological testing in pharmaceuticals (1)	08
September	Unit 4 - Concepts on biosafety in Biotechnology (02), Regulating food and food ingredients (03), Genetically engineered crops (01)  Regulating rDNA technology (02), Genetically engineered crops, livestock Biotech (02), Contemporary issues in Biotech (02)	Unit 4 - Concepts on biosafety in Biotechnology (02), Regulating food and food ingredients (03), Genetically engineered crops (01)  Regulating rDNA technology (02), Genetically engineered crops, livestock Biotech (02), Contemporary issues in Biotech (02)	08
	Contemporary issues in Biotech (02)		



Signature of Coordinator: <i>[Signature]</i>	Signature of Subject Teachers: <i>[Signature]</i>
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<b>LAXMI CHARITABLE TRUSTS</b> <b>SIRTHI D. J. &amp; SIR M. V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RAJESHWARAN ROAD, ANHURLI (E), MUMBAI - 400 069</b>			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
<b>Department</b>		<b>Biochemistry</b>	
<b>Name of teacher</b>		<b>Ms. Deepanshi Chavli</b>	
<b>Class: IV B.Sc. Semester-VI Subject: Biochemistry</b>			
<b>Subject Code: USST601</b>			
<b>No. of lectures Allotted per week: 04</b>		<b>No. of lectures Covered per Semester: 03</b>	
		<b>No. of lectures Allotted per Semester: 60</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lecture as per topic</b>
<b>November</b>	<b>Unit I: Protein structure: Protein Tertiary and Quaternary Structures - (2), Protein Denaturation and Folding - (3)</b>	<b>Unit I: Protein structure: Protein Tertiary and Quaternary Structures - (2), Protein Denaturation and Folding - (3)</b>	<b>01</b>
<b>December</b>	<b>Protein Function: Reversible Binding of a Protein to a Ligand: Oxygen-Binding Proteins - (2), Complementary Interactions between Proteins and Ligands: Immunoglobulins - (1), Protein Interactions Mediated by Chemical Energy: Actin, Myosin, and Molecular Motors (3) Protein purification -</b>	<b>Protein Function: Reversible Binding of a Protein to a Ligand: Oxygen-Binding Proteins - (2), Complementary Interactions between Proteins and Ligands: Immunoglobulins - (1), Protein Interactions Mediated by Chemical Energy: Actin, Myosin, and Molecular Motors (3) Protein purification -</b>	<b>02</b>

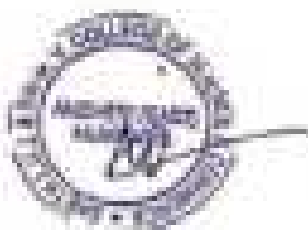




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<b>December</b>	(4) <b>Unit 2: Carbohydrate biosynthesis and its regulation:</b> Starch (01)	(4) <b>Unit 2: Carbohydrate biosynthesis and its regulation:</b> Starch (01)	04
<b>January</b>	Carbohydrate biosynthesis and its regulation: Starch and sucrose in Plants -(3) Glycogen in Animals - (4) Introduction to Peptidoglycan biosynthesis (1) Peptidoglycan in Bacteria - (1) Biosynthesis and regulation of Cholesterol, Arteriosclerosis - (3)  <b>Unit 3: Mechanism of action of group I and II hormones- (1)</b> Structure, storage, release, transport, biochemical functions and disorders associated with hormones secreted by Hypothalamus -(1)	Carbohydrate biosynthesis and its regulation: Starch and sucrose in Plants -(3) Glycogen in Animals - (4) Introduction to Peptidoglycan biosynthesis (1) Peptidoglycan in Bacteria - (1) Biosynthesis and regulation of Cholesterol, Arteriosclerosis - (3)  <b>Unit 3: Mechanism of action of group I and II hormones- (1)</b> Structure, storage, release, transport, biochemical functions and disorders associated with hormones secreted by Hypothalamus -(1)	08

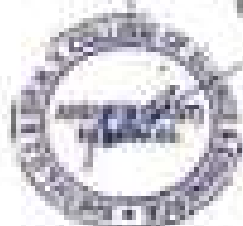


<p>January</p>	<p>Anterior Pituitary gland - GH, stimulating hormones - (1)  Posterior Pituitary gland - oxytocin and vasopressin - (1) Thyroid gland - Thyroxine, calcitonin - (2)  Parathyroid gland - PTH - (1)  Adrenal medulla - epinephrine and norepinephrine - (1)  Pancreas - insulin and glucagon - (2)  Adrenal cortex - Glucocorticoids - (1)    Progesterone  Gonads - oestrogen and progesterone - (2)  Male gonads - testosterone - (1)  Placenta - hCG - (1)  Unit 4: Introduction to</p>	<p>Anterior Pituitary gland - GH, stimulating hormones - (1)  Posterior Pituitary gland - oxytocin and vasopressin - (1) Thyroid gland - Thyroxine, calcitonin - (2)  Parathyroid gland - PTH - (1)  Adrenal medulla - epinephrine and norepinephrine - (1)  Pancreas - insulin and glucagon - (2)  Adrenal cortex - Glucocorticoids - (1)    Progesterone  Gonads - oestrogen and progesterone - (2)  Male gonads - testosterone - (1)  Placenta - hCG - (1)  Unit 4:  Introduction to Minerals and Vitamins - (1)</p>	<p>17</p>
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	Minerals and Vitamins (1) Dietary sources, bioactive forms, functions and disorders associated with fat soluble (A) (2) (2)	Dietary sources, bioactive forms, functions and disorders associated with fat soluble (A) (2)	
February	Dietary sources, bioactive forms, functions and disorders associated with fat soluble (D, E, K) and water soluble vitamins - (4) Minerals - physiological and biochemical functions of principal and trace elements (4) Minerals - physiological and biochemical functions of principal and trace elements - (2) Malnutrition - Over nutrition (obesity) and PEM (Kwashiorkor and Marasmus) - (1)	Dietary sources, bioactive forms, functions and disorders associated with fat soluble (D, E, K) and water soluble vitamins - (8) Minerals - physiological and biochemical functions of principal and trace elements (4) Minerals - physiological and biochemical functions of principal and trace elements - (2) Malnutrition - Over nutrition (obesity) and PEM (Kwashiorkor and Marasmus) - (1)	10
Signature of Coordinator: 		Signature of Subject Teacher: 	



LAXMI CHARITABLE TRUSTS SHETH L.J. & SIR M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE DR. S. RADHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 069			
<b>Teaching Plan and Implementation Record (2023-24)</b>			
Department		Biochemistry	
Name of teacher		Mrs. Shweta Khopde	
Class: TY B.Sc. Semester-VI		Subject: Industrial	
Microbiology		Subject Code:	
UNIT-02			
No. of lectures Allotted per week: 04 No. of lectures Covered per Semester: 02			
No. of lectures Allotted per Semester: 08			
Month of teach	Topic Proposed	Topic Covered	No. of lectures per





<p>Nov 2021</p> <p>December</p> <p>January</p>	<p>Unit 1: Milk: Normal flora, changes in raw milk.(02)            Enumeration, Factors affecting microbiological quality.(02)            Dairy technology Preservation methods. (02)</p> <p>Pasteurization; Starter Cultures.(02)            Fermented products - Production process and spoilage of Cheese: Swiss and Cheddar. (02) Butter, Yogurt; Buttermilk. (04)</p>	<p>Unit 1: Milk: Normal flora, changes in raw milk.(02)            Enumeration; Factors affecting microbiological quality.(02)            Dairy technology Preservation methods. (04)</p> <p>Pasteurization; Starter Cultures.(04)            Fermented products - Production process and spoilage of Cheese: Swiss and Cheddar. (2) Butter, Yogurt; Buttermilk. (08)</p>	<p>02</p> <p>00</p>
<p>December</p> <p>January</p>	<p>Unit 2: Introduction of DSP(01)            Food separation; Types of Precipitation. (04)            Filtration; Centrifugation; Chromatography in DSP.(04)            Cell disruption – Physical and Chemical methods; Solvent recovery.(05)            Membrane processes; Drying; Crystallization and Whole milk processing. (03)</p>	<p>Unit 2: Introduction of DSP(01)            Food separation; Types of Precipitation. (04)            Filtration; Centrifugation; Ch chromatography in DSP.(05)            Cell disruption – Physical and Chemical methods; Solvent recovery.(04)            Membrane processes; Drying; Crystallization and Whole milk processing. (03)</p>	<p>00</p> <p>03</p>
<p>January</p>	<p>Unit 3: Introduction to Inoculum development; Bacterial and Fungal (02)</p> <p>Introduction to Inoculum development; Fungal inoculum development with one example each. (03)            Scale up, Scale down; Production of Streptomycin; Penicillin. (02)            Production of: Mushrooms; Glutamic acid; Lysine;(04)            Ethanol production; Semi-synthetic Penicillin; Biotransformation. (05)</p>	<p>Unit 3: Introduction to Inoculum development; Bacterial and Fungal (02)Introduction to Inoculum development; Fungal inoculum development with one example each. (03)            Scale up, Scale down; Production of Streptomycin; Penicillin. (02)            Production of: Mushrooms; Glutamic acid; Lysine;(04)            Ethanol production; Semi-synthetic Penicillin; Biotransformation. (05)</p>	<p>00</p> <p>00</p>



January	Unit 4: Concepts of GMP; Requirements of GMP implementation (I) (II) Documentation of GMP practices (II)	Unit 4: Concepts of GMP; Requirements of GMP implementation; (II) Documentation of GMP practices (II)	05
February	Regulatory certification of GMP; Quality Control (QC) : Concept of QC (I) Requirements for implementing QC (II) Quality Assurance (QA) Concept of QA; Requirements for implementing QA (II)	Regulatory certification of GMP; Quality Control (QC) : Concept of QC (II) Requirements for implementing QC (II) Quality Assurance (QA) Concept of QA; Requirements for implementing QA (II)	05
Signature of Coordinator: 		Signature of Subject Teacher: 	

<b>LAXMI CHARITABLE TRUSTS</b> <b>SHETH L.L.J. &amp; SH. M.V. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE</b> <b>DR. S. RADHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 069</b>	
<b>Teaching Plan and Implementation Record (2023-24)</b>	
Department	Biotechnology
Name of teacher	Dr. Priyanka Yartak
Class: TY B.Sc. Semester-VI Neurochemistry	Subject: Pharmacology and Subject Code: USBT603
No. of lectures Allotted per week: 01 Semester: 01	No. of lectures Covered per Semester: 08



Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
November December	Unit 1 - Mechanism of drug action (02); drug receptors and biological responses (02); second-messenger systems (01), the chemistry of drug-receptor binding (01), dose-response relationship (02); therapeutic index; ED, LD ; Potency and Intrinsic Activity (03) Drug antagonism (02)	Unit 1 - Mechanism of drug action (02); drug receptors and biological responses (02); second-messenger systems (01), the chemistry of drug-receptor binding (01), dose-response relationship (02); therapeutic index; ED, LD ; Potency and Intrinsic Activity (03) Drug antagonism (02)	02  10
January February	Unit 2 - Absorption of drugs from the alimentary tract (01) Absorption of drugs from the alimentary tract (02) factors affecting rate of gastrointestinal absorption (02) Absorption of drugs from lungs ;skin (02) absorption of drugs after parenteral administration (02) factors influencing drug distribution (02); binding of drugs to plasma proteins (02); Physiological barriers to drug distribution (02) Unit 3 - Background Definitions (01) Causation: degree of certainty Classification (01) Causes: Allergy in response to drugs, Effects of prolonged administration; chronic organ toxicity (02).	Unit 2 - Absorption of drugs from the alimentary tract (01) Absorption of drugs from the alimentary tract (02) factors affecting rate of gastrointestinal absorption (02) Absorption of drugs from lungs ;skin (02) absorption of drugs after parenteral administration (02) factors influencing drug distribution (02); binding of drugs to plasma proteins (02); Physiological barriers to drug distribution (02) Unit 3 - Background Definitions (01) Causation: degree of certainty Classification (01) Causes: Allergy in response to drugs, Effects of prolonged administration; chronic organ toxicity (02).	10  03

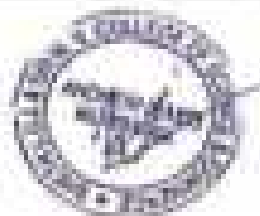


<p><b>Fiber- ary</b></p>	<p>Adverse effects on reproduction (III), Fetus/Delivered and accidental self-poisoning Principles of treatment Poison-specific measures General measures (II). Specific poisonings: cyanide, methanol, ethylene glycol, hydrocarbons, volatile solvents, heavy metals (III)</p>	<p>Adverse effects on reproduction (III), Fetus/Delivered and accidental self-poisoning Principles of treatment Poison-specific measures General measures (II). Specific poisonings: cyanide, methanol, ethylene glycol, hydrocarbons, volatile solvents, heavy metals (III)</p>	<p><b>II</b></p>
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	Antidotes and poisons (II) Biological substances (evolution of medicinal drugs is dealt with under individual agents) (II) Occupanting agents: drugs used for tumors (II) Pharmaceutical use of drugs (II)	Antidotes and poisons (II) Biological substances (evolution of medicinal drugs is dealt with under individual agents) (II) Occupanting agents: drugs used for tumors (II) Pharmaceutical use of drugs (II)	
	Unit -4 Anatomy and functioning of the brain - (2) Neuronal pathways - (1)	Unit -4 Anatomy and functioning of the brain - (2) Neuronal pathways - (1)	
April (12/04/2020 - 01)	Neuronal pathways - (1) Propagation of nerve impulses - (2) Neuronal excitation and inhibition - (2) Introduction to Synapses and gap junctions - (2) Synapses and gap junctions - (1) Action of Neurotransmitter and neurotransmitters(2)	Neuronal pathways - (1) Propagation of nerve impulses - (2) Neuronal excitation and inhibition - (2) Introduction to Synapses and gap junctions - (2) Synapses and gap junctions - (1) Action of Neurotransmitter and neurotransmitters(2)	12
Signature of Coordinator: <i>Atul</i>	Signature of Subject Teacher: <i>Pratik</i>		

LAXMI CHARITABLE TRUST'S BHETH L.U. & SIR M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE DR. S. RADHAKRISHNAN MARG, ANCHESI (II), MUMBAI - 400 069	
Teaching Plan and Implementation Report (2023-24)	
Department	Microbiology
Name of teachers	Divyansu Kapadia and Priya Vishwakarma

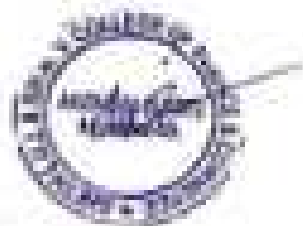


Class: TY B.Sc. Semester-VI		Subject: Environmental Biotechnology	
Total Lectures Allotted per week: 04		Subject Code: UBT604	
Semester: 07		No. of lectures Covered per Semester: 08	
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
November - November	Unit 1 - Energy sources renewable - solar energy, wind power, geothermal energy and hydropower, biomass energy (Biomass technology- biogas plant & types, biogasifier, Biogas-composition, production and factors affecting production, uses Unit 1 - Biofuels - ethanol production, Microbial hydrogen production (Industrial), Petrocarbons Unit 2 - Biological processes for industrial effluent treatment.	Unit 1 - Energy sources renewable - solar energy, wind power, geothermal energy and hydropower, biomass energy (Biomass technology- biogas plant & types, biogasifier, Biogas-composition, production and factors affecting production, uses Biofuels - ethanol production - Microbial hydrogen production (Industrial), Petrocarbons Unit 2 - Biological processes for industrial effluent treatment. (08)	12





November - January (Thrust Semester)	microbial cells for treatment (03) Unit 3 - Wastewater treatment- introduction, biological treatment	microorganisms for biodegradation, Use of acclimatized systems or microbial cells for treatment (01) Unit 3 - Wastewater treatment- introduction, biological treatment (02)	
January- February	Impact of pollutants on biotreatment, use of packaged organisms and genetically engineered organisms in waste treatment ; Heavy metal pollution - sources, microbial systems for heavy metal sequestration, techniques used for heavy metal removal biosorption by bacteria, fungi and algae, factors affecting biosorption, limitations of biosorption  Unit4 - Biodegradation of waste from tanning industry; petroleum industry	Impact of pollutants on biotreatment (01), use of packaged organisms and genetically engineered organisms in waste treatment (02) ; Heavy metal pollution - sources, microbial systems for heavy metal sequestration (03), techniques used for heavy metal removal(02) biosorption by bacteria, fungi and algae, factors affecting biosorption (01), limitations of biosorption (01)  Unit4 - Biodegradation of waste from tanning industry (02); petroleum industry (01)	
February - March	Petroleum industry; paper & pulp industry, Dairy, Distillery, Dye Antibiotic industry; Removal of oil spillage & grease deposits	Petroleum industry (01); paper & pulp industry (02); Dairy (01); Distillery (01); Dye (02) Antibiotic industry (02); Removal of oil spillage & grease deposits (01)	Unit 4: 13
Signature of Coordinator: 		Signature of Subject Teacher: 	



**RAMA CHARITABLE TRUSTS**  
**SRI HILL & SRI MV COLLEGE OF ARTS, SCIENCE & COMMERCE**  
**THE S. RAJAKRISHNAN MARIL ANTHEMILAI, MUMBAI - 401307**

**Teaching Plan and Implementation Record (JBE3-24)**

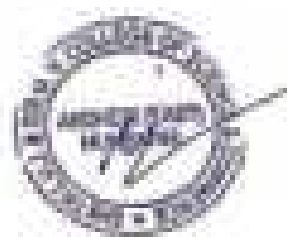
<b>Department</b>		<b>Biotechnology</b>	
<b>Name of teacher</b>		Mrs. Nirveta Khatke, Ms. Deepanshi Ghosh, Dr. Priyanka Vartak	
<b>Class: IV B.Sc. Semester VI</b>		<b>Subject: Agri Biotechnology</b> <b>Subject Code: USBTAC</b>	
<b>No. of lectures Allotted per week: 04</b>		<b>No. of lectures Covered per Semester: 44</b> <b>No. of lectures Allotted per Semester: 48</b>	
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<p><b>November</b> <b>01- December</b> <b>01</b></p> <p><b>Unit 1:</b> <b>DC</b> <b>March</b></p>	<p><b>Unit 1: Introduction to Agriculture and Agriculture systems; Green House Technology- Types of green houses, importance, (02) Functions and features of greenhouse, Design criteria and calculation;(02)</b>  <b>Constructing material, covering material and its characteristics, Growing media, greenhouse irrigation system, nutrient management;(02)</b>  <b>Greenhouse heating, cooling and shading and ventilation system, Computer controlled environment;( 03)</b>  <b>Phytotrons, Fertigation and roof system;</b>  <b>Precision Cultivation- tools, sensors for information acquisition. (03)</b></p>	<p><b>Unit 1: Introduction to Agriculture and Agriculture systems; Green House Technology- Types of green houses, importance, (02) Functions and features of greenhouse, Design criteria and calculation;(02)</b>  <b>Constructing material, covering material and its characteristics, Growing media, greenhouse irrigation system, nutrient management;(02)</b>  <b>Greenhouse heating, cooling and shading and ventilation system, Computer controlled environment; (03)</b>  <b>Phytotrons, Fertigation and roof system;</b>  <b>Precision Cultivation- tools, sensors for information acquisition. (03)</b></p>	<p style="text-align: center;"><b>16</b></p> <p style="text-align: center;"><b>Unit 2: 04</b></p>



February	<p><b>Unit 2: Abiotic stress –</b> Physiological and molecular responses of plants to water stress, salinity stress, temperature stress – heat and cold.(01)</p> <p>Photosynthetic stress perception and stress signaling pathways (01)</p>	<p><b>Unit 2: Abiotic stress –</b> Physiological and molecular responses of plants to water stress, salinity stress, temperature stress – heat and cold.(01)</p> <p>Photosynthetic stress perception and stress signaling pathways (01)</p>	04
March	<p>biotic and abiotic interactions, reactive oxygen species scavenging. (02)</p> <p>Biotic stress – plant interaction with bacterial, viral and fungal pathogens.Plant responses to pathogens – biochemical and molecular basis of host-plant resistance. (01)</p> <p>Toxins of fungi and bacteria, systemic and induced resistance – pathogen derived resistance, signaling. (01)</p> <p><b>Unit 3: Genetic markers in plant breeding –</b> Classical markers, DNA markers (RFLP, RAPD, AFLP, SSR, SNP). (02)</p> <p>Application of Molecular Markers in Plant Breeding (Quantitative trait locus mapping)(06)</p> <p>Plant DNA Barcoding – Barcoding markers (matK, rbcL, ITS, trnT-psbA). Steps. (02)</p> <p>Recent advances, Benefits, Limitations. (02)</p>	<p>biotic and abiotic interactions, reactive oxygen species scavenging. (02)</p> <p>Biotic stress – plant interaction with bacterial, viral and fungal pathogens.Plant responses to pathogens – biochemical and molecular basis of host-plant resistance. (01)</p> <p>Toxins of fungi and bacteria, systemic and induced resistance – pathogen derived resistance, signaling. (01)</p> <p><b>Unit 3: Genetic markers in plant breeding –</b> Classical markers, DNA markers (RFLP, RAPD, AFLP, SSR, SNP). (02)</p> <p>Application of Molecular Markers in Plant Breeding (Quantitative trait locus mapping)(06)</p> <p>Plant DNA Barcoding – Barcoding markers (matK, rbcL, ITS, trnT-psbA). Steps. (02)</p> <p>Recent advances, Benefits, Limitations. (02)</p>	08
February or March	<p><b>Unit 4. Biofertilizer: Nitrogen-fixing Rhizobacteria –</b> Symbiotic Nitrogen Fixers, Non-symbiotic Nitrogen Fixers Plant Growth Promoting Microorganisms – Phosphate Solubilizing Microbes (PSM),(01)</p>	<p><b>Unit 4. Biofertilizer: Nitrogen-fixing Rhizobacteria –</b> Symbiotic Nitrogen Fixers; Non-symbiotic Nitrogen Fixers Plant Growth Promoting Microorganisms – Phosphate Solubilizing Microbes (PSM),(01)</p>	12



	<p>Phytohormones and Cytokinin, Induced Systemic Resistance, Plant Growth Promotion by Fungi – Mycorrhizae Arbuscular Mycorrhizae Glomeromycorrhizae(01) Microbial Inoculants – Inocula, Carriers and Applications, Monoculture and Co-culture Inoculant Formulations: Humic acid, (01) Polymicrobial Inoculant Formulations.(01) Bacterioides – Types, Bacillus thuringiensis, insect viruses and entomopathogenic fungi (characteristics, physiology, mechanism of action and application). (01)</p>	<p>Phytohormones and Cytokinin, Induced Systemic Resistance, Plant Growth Promotion by Fungi – Mycorrhizae Arbuscular Mycorrhizae Glomeromycorrhizae(01) Microbial Inoculants – Inocula, Carriers and Applications, Monoculture and Co-culture Inoculant Formulations: Humic acid, (01) Polymicrobial Inoculant Formulations(01) Bacterioides – Types, Bacillus thuringiensis, insect viruses and entomopathogenic fungi (characteristics, physiology, mechanism of action and application). (01)</p>	
<p>Signature of Coordinator: <i>Ashish</i></p>	<p>Signature of Subject Teacher: <i>Abhishek</i></p>		<p><i>Manish</i></p>



**Training (Non-Diploma) Scheme Document (2021-22)**  
**[C.A. COMPUTER SCIENCE]**  
**SECTION 4**

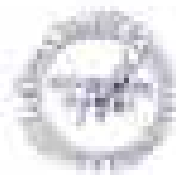
ACADEMIC YEAR 2021-22 DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY UNIVERSITY OF KERALA, KANNUR CAMPUS, KANNUR - 690 002			
Training (Non-Diploma) Scheme Document (2021-22)			
Department:		C.A. Computer Science	
Name of Institute:		C.A. Kannur Campus	
Class / U.G./P.G. Scheme /		Subject: Digital Systems & Applications - Phase	Report Code: 0247001
No. of Semesters offered per week: 02		No. of Semesters Offered per Semester: 02	No. of Semesters offered per Semester: 02
Week of Training	Topic Proposed	Topic for the week to be offered	No. of Semesters
1st	Introduction of Digital Logic, Implementation Logic Function to Combinational Circuit, Sequential Circuits, Counters	Topic 1: Digital Logic 2: Binary Addition by Boolean Algebra	02
2nd	Combinational Logic: Binary Decision Diagrams, Binary Decision Diagrams, Binary Decision Diagrams	3: Binary Addition by Boolean Algebra 4: Binary Subtraction by Boolean Algebra	02
3rd	Sequential Logic: Flip-Flops, Synchronous Sequential Circuits, Asynchronous Sequential Circuits	5: Binary Addition by Boolean Algebra 6: Binary Subtraction by Boolean Algebra	02
4th	Combinational Logic: Implementation of Combinational Logic Functions using Boolean Algebra	7: Binary Addition by Boolean Algebra 8: Binary Subtraction by Boolean Algebra	02
5th	Sequential Logic: Implementation of Sequential Logic Functions using Boolean Algebra	9: Binary Addition by Boolean Algebra 10: Binary Subtraction by Boolean Algebra	02
Signature of Coordinator: 		Signature of Subject Teacher: 	



**UNIVERSITY OF CALICUT**  
**SCHOOL OF DISTANCE EDUCATION**  
**UNIVERSITY CAMPUS, CALICUT - 673032**

**Faculty: The Joint Engineering Board (2022)**

<b>Department</b>		ECE, Calicut Branch	
<b>Name of teacher</b>		Mr. Pradeep Kumar	
<b>Class / Section / Semester</b>		<b>Subject: Digital System &amp; Architecture - Practical</b>	
		<b>Subject Code: CE20220</b>	
<b>No. of lessons / Assignments per week (1-10)</b>		<b>No. of lessons / Assignments per Semester (20)</b>	
		<b>No. of lessons / Assignments per Semester (20)</b>	
Week of teaching	Topic / Project	Topic / Assignments with notes	No. of lessons
<b>Week 1</b>	<ol style="list-style-type: none"> <li>1. Study and verify the truth table of various logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR).</li> <li>2. Design and verify Arithmetic operations add/subtract.</li> <li>3. Design and verify shift register.</li> <li>4. Design and verify D flip-flop.</li> </ol>	<ol style="list-style-type: none"> <li>1. Design and verify shift register adder.</li> <li>2. Design and verify shift register subtractor.</li> <li>3. Design and verify adder subtractor.</li> <li>4. Design and verify adder subtractor.</li> </ol> <p style="text-align: center;"><b>Assignment</b></p>	05
<b>Week 2</b>	<ol style="list-style-type: none"> <li>1. Design a 4-bit parallel adder using combinational circuit.</li> <li>2. Design and verify the operation of flip-flop using logic gates.</li> <li>3. Design the operation of a counter.</li> <li>4. Design the operation of a shift register.</li> </ol>	<ol style="list-style-type: none"> <li>1. Verify the operation of a counter.</li> <li>2. Verify the operation of a shift register.</li> <li>3. Verify the operation of a counter.</li> <li>4. Verify the operation of a shift register.</li> </ol> <p style="text-align: center;"><b>Assignment</b></p>	05
<b>Week 3</b>	<ol style="list-style-type: none"> <li>1. Design and verify adder subtractor using multiplexer, demultiplexer, decoder and encoder.</li> <li>2. Design and verify 4-bit binary adder using 8421 BCD.</li> <li>3. Design and verify 4-bit binary subtractor using 8421 BCD.</li> <li>4. Design and verify 4-bit binary adder subtractor using 8421 BCD.</li> </ol>	<ol style="list-style-type: none"> <li>1. Design and verify adder subtractor using multiplexer, demultiplexer, decoder and encoder.</li> <li>2. Design and verify 4-bit binary adder using 8421 BCD.</li> <li>3. Design and verify 4-bit binary subtractor using 8421 BCD.</li> <li>4. Design and verify 4-bit binary adder subtractor using 8421 BCD.</li> </ol>	05
<b>Signature of Candidate:</b>		<b>Signature of Teacher:</b>	



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF CHEMISTRY**  
**130C - ORGANOMETALLIC CHEMISTRY**

**Reading Plan and Implementation Record 1987-88**

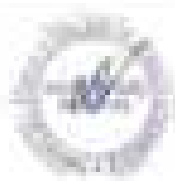
<b>Department:</b>		130C - Department of Chemistry	
<b>Name of teacher:</b>		Dr. [Name]	
<b>Class:</b>		130C - Organometallic Chemistry	
<b>Section:</b>		Section [Number]	
<b>Text:</b>		[Text Title]	
<b>Topic:</b>		[Topic]	
<b>Objectives:</b>		[Objectives]	
<b>Number of readings:</b>	<b>No. of hours:</b>	<b>No. of hours:</b>	<b>No. of hours:</b>
<b>Number of readings</b>	<b>Topic (Assignment)</b>	<b>Hours to be read (estimated)</b>	<b>No. of hours</b>
1	[Topic]	[Hours]	[Hours]
2	[Topic]	[Hours]	[Hours]
3	[Topic]	[Hours]	[Hours]
4	[Topic]	[Hours]	[Hours]
<b>Signature of Lecturer:</b>		<b>Signature of Student:</b>	



**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**UNIVERSITY OF CALICUT**

**Faculty: Physical and Mathematical Sciences**

<b>Department:</b>		Physical Sciences	
<b>Name of teacher:</b>		Dr. M. Anis Fathima	
<b>Class/Section:</b> Science I		<b>Subject:</b> Introduction to Programming with Python - Practical	<b>Subject Code:</b> PHS03001
<b>No. of classes/Method per week (10):</b>		<b>No. of classes/Method per Semester (30):</b>	<b>No. of classes/Method per Semester (30):</b>
<b>Sl. No. of meeting</b>	<b>Topic Covered</b>	<b>Sl. No. of classes/Method per week</b>	<b>No. of classes/Method per Semester</b>
1	1. Write a program to display numbers 1 to 10 using for loop. 2. Write a program to display numbers 10 to 1 using for loop. 3. Write a program to display numbers 1 to 10 using while loop. 4. Write a program to display numbers 10 to 1 using while loop. 5. Write a program to display numbers 1 to 10 using do-while loop. 6. Write a program to display numbers 10 to 1 using do-while loop.	10 programs/10 classes	10
2	1. Write a program to display numbers 1 to 10 using for loop. 2. Write a program to display numbers 10 to 1 using for loop. 3. Write a program to display numbers 1 to 10 using while loop. 4. Write a program to display numbers 10 to 1 using while loop. 5. Write a program to display numbers 1 to 10 using do-while loop. 6. Write a program to display numbers 10 to 1 using do-while loop.	10 programs/10 classes	10
3	1. Write a program to display numbers 1 to 10 using for loop. 2. Write a program to display numbers 10 to 1 using for loop. 3. Write a program to display numbers 1 to 10 using while loop. 4. Write a program to display numbers 10 to 1 using while loop. 5. Write a program to display numbers 1 to 10 using do-while loop. 6. Write a program to display numbers 10 to 1 using do-while loop.	10 programs/10 classes	10
<b>Signature of Teacher:</b>		<b>Signature of Head of Department:</b>	





**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT UNIVERSITY OF DISTANCE EDUCATION**  
**UNIVERSITY OF CALICUT UNIVERSITY OF DISTANCE EDUCATION**

**Working Paper and Implementation Report (WPIR)**

<b>Department:</b>		A. A. Computer Science	
<b>Name of Project:</b>		AI, Data Science	
<b>Course / Year / Sem:</b>		Subject: B.A. / B.Sc. Computer Science - Practical / Subject Code: 170 / 17001	
<b>No. of hours allocated per week (10-15)</b>		<b>No. of hours covered per semester (30)</b>	
<b>Mode of teaching</b>	<b>Topic Proposed</b>	<b>Each hour covered with content</b>	<b>No. of books</b>
<b>Topic</b>	<ol style="list-style-type: none"> <li>1. Introduction to AI, Machine Learning, Deep Learning and Neural Networks</li> <li>2. Supervised Learning: Linear Regression, Logistic Regression, Decision Trees, Support Vector Machines, Naive Bayes, K-Nearest Neighbors</li> <li>3. Unsupervised Learning: Clustering (K-Means, Hierarchical), Association Rule Mining, Outlier Detection</li> <li>4. Deep Learning: Feedforward Neural Networks, Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Generative Adversarial Networks (GAN)</li> </ol>	10 proposed topics covered	10
<b>Reference</b>	<ol style="list-style-type: none"> <li>1. Artificial Intelligence: A Modern Approach</li> <li>2. Python for Data Science</li> <li>3. Deep Learning with Python</li> </ol>	14 proposed topics covered	10
<b>Books</b>	<ol style="list-style-type: none"> <li>1. Python for Data Science</li> <li>2. Deep Learning with Python</li> <li>3. Artificial Intelligence: A Modern Approach</li> </ol>	10 proposed topics covered	10
<b>Signature of the Candidate:</b>		<b>Signature of the Guide:</b>	





UNIVERSITY OF CALIFORNIA, BERKELEY  
 DEPARTMENT OF CHEMISTRY  
 CHEMISTRY 104

Learning Plan and Implementation Report (2015-16)

Department:		C.S. Campbell Center	
Name of teacher:		Dr. Robert Hill	
Chem. 104A, B, C, D, Sections: 1		Subject: Organic Chemistry - Physical	Subject Code: 104-0001
No. of classes attempted per semester: 10		No. of classes completed per semester: 10	No. of classes attempted per semester: 11
Week of teaching	Topic Proposed	Topic(s) Covered with errors	No. of classes
July	1. Open House/Starting Session	All proposed topics are covered	10
Aug	2. Study on with 1st semester 3. Study on with 2nd semester 4. Study on with 3rd semester 5. Study on with 4th semester 6. Study on with 5th semester 7. Study on with 6th semester 8. Study on with 7th semester	All proposed topics are covered	10
Sept	9. Study	All proposed topics are covered	10
Oct	10. Study	All proposed topics are covered	10
Signature of Professor: <i>[Signature]</i>		Signature of Student Teacher: <i>[Signature]</i>	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT - UNIVERSITY OF APPLIED SCIENCES**  
**UNIVERSITY OF CALICUT - UNIVERSITY OF APPLIED SCIENCES - KERALA**

**Training Plan and Implementation Report 2022-23**

<b>Department</b>		Mr. P. Prasad Kumar	
<b>Name of Institute</b>		Mr. P. Prasad Kumar	
<b>Class / Section / Semester</b>		<b>Subject Name/Module/ Theme</b>	<b>Subject Code (if any)</b>
<b>No. of students allotted per week (A)</b>		<b>No. of classes/periods per semester (B)</b>	<b>No. of hours allotted per semester (C)</b>
Weeks of training	Topic Proposed	Topic Implemented with reason	No. of classes
July	Business Ethics Business Systems	Topic: Training objectives of a well-run HRM Dept. Topic: Business Ethics (Business)	10
Aug	Insurance Term	Topic: Insurance Term and its importance Topic: Insurance Term and its importance	10
Sept	Business Law Business Law/Contracts	Topic: Business Law/Contracts Topic: Business Law/Contracts	10
Oct	Business Law/Contracts Business Law/Contracts Business Law/Contracts Business Law/Contracts	Topic: Business Law/Contracts Topic: Business Law/Contracts Topic: Business Law/Contracts Topic: Business Law/Contracts	10
Nov	Business Law/Contracts Business Law/Contracts	Topic: Business Law/Contracts Topic: Business Law/Contracts	10
<b>Signature of Faculty</b>		<b>Signature of Subject Officer</b>	



**1. ADMINISTRATIVE / OTHERS**  
**2023-24**

**Financial Year and Implementation Period (2023-24)**

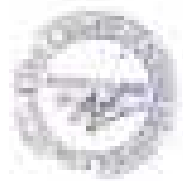
<b>Department:</b>		<b>M. H. Jangam School</b>	
<b>Name of teacher:</b>		<b>Mr. Pratik Jangam</b>	
<b>Class / Section (Teacher / Subject):</b>		<b>Class / Sec: 10th / English</b>	
<b>No. of lessons / Units (per week / month / term):</b>		<b>No. of lessons / Units (per week / term):</b>	
Weeks of teaching	Topic / Chapter	Topic / Unit covered with content	No. of activities
1st	Chapter: <b>Introduction to English</b>	1. <b>Introduction to English</b> 2. <b>Importance of English</b>	01
2nd	Chapter: <b>My Motherland</b>	1. <b>My Motherland</b> 2. <b>My Motherland is my dear land</b>	01
3rd	Chapter: <b>My Motherland</b>	1. <b>My Motherland</b> 2. <b>My Motherland is my dear land</b>	01
4th	Chapter: <b>My Motherland</b>	1. <b>My Motherland</b> 2. <b>My Motherland is my dear land</b>	01
5th	Chapter: <b>My Motherland</b>	1. <b>My Motherland</b> 2. <b>My Motherland is my dear land</b>	01
<b>Signature of Teacher:</b>		<b>Signature of Teacher / Head:</b>	



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF CHEMISTRY**  
**PHYSICAL CHEMISTRY**

**Final Project Report**

Name: _____		Date: _____	
Section: _____		Instructor: _____	
Title: _____		Subject: _____	
No. of Pages: _____		No. of Pages: _____	
Grade	Topic	Final Project Report	No. of Pages
A	_____	_____	_____
B	_____	_____	_____
C	_____	_____	_____
D	_____	_____	_____
Signature of Student: _____		Signature of Instructor: _____	



**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**THE UNIVERSITY OF CALICUT, MALAPPURAM, KERALA - INDIA**

**Final Year and Semesters-wise Revised CPE 2018**

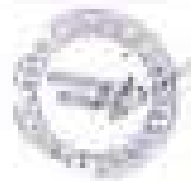
<b>Department</b>		B.A. / B.Com. / B.B.A.	
<b>Name of teacher</b>		M. J. J. J. J.	
<b>Class / Section / Shift</b>		B.A. / B.Com. / B.B.A.	
<b>Subject / Course / Programme</b>		B.A. / B.Com. / B.B.A.	
<b>No. of students offered per month / 2018</b>		<b>No. of students offered per Semester / 18</b>	
<b>Month of teaching</b>	<b>Topic / Project</b>	<b>Topic / Project covered with content</b>	<b>No. of students</b>
July	1. History of India 2. Political system of India 3. State Government 4. National Developmental Programmes 5. Planning in India	All projects were submitted	101
Aug	1. History of India 2. Political system of India 3. State Government 4. National Developmental Programmes 5. Planning in India	All projects were submitted	101
Sept	1. History of India 2. Political system of India 3. State Government 4. National Developmental Programmes 5. Planning in India	All projects were submitted	101
Oct	1. History of India 2. Political system of India 3. State Government 4. National Developmental Programmes 5. Planning in India	All projects were submitted	101
<b>Signature of Examinator</b>		<b>Signature of Subject Teacher</b>	



**STATE UNIVERSITY OF NEW YORK  
SUNY COLLEGE OF REALTORS, BROKER ASSOCIATION  
AND REAL ESTATE INSTITUTE, APRIL 2012, BUDGET - 2012**

**Working Plan and Implementation Budget for 2012**

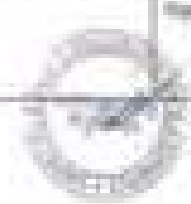
<b>Prepared by:</b>		<b>By: Eugene Gitter</b>	
<b>Approved by:</b>		<b>By: Eugene Gitter</b>	
<b>Plan Period (to be completed):</b>		<b>Budget Year (to be used):</b>	<b>Report Year (to be used):</b>
<b>No. of members allocated per Article 41</b>		<b>No. of members allocated per Article 41</b>	<b>No. of members allocated per Article 41</b>
<b>Block or heading</b>	<b>Title Proposed</b>	<b>Funds to be provided with source</b>	<b>No. of Members</b>
101	Executive Council Staff 101-1011, Administration - Finance and Operations of Real Estate Office, Supervisory and Management of Real Estate Development Programs, Research, Publications, etc.	100 percent from 100 percent	10
102	Systems and Services, Support and Services Staff, National Conventions, Member Services, etc. - Publications and Educational Materials and Services	100 percent from 100 percent	10
103	4 full-time positions Group Executive, Finance and Operations Staff Construction and Real Estate, Group Executive and Operations, Real Estate and Finance Staff, Executive Services Staff, etc. - Publications and Services, Support Systems, Research Staff, etc. - Publications and Services and other Staff/Services Staff, Finance and Operations Staff, etc.	100 percent from 100 percent	10
<b>Signature of President:</b> <i>[Signature]</i>		<b>Signature of Budget Officer:</b> <i>[Signature]</i>	



**Training Plan Summary Report Form (2021-2022)**  
**U.S. AIR FORCE (U.S. AIR FORCE)**  
**CONTRACTOR**

(Insert Contract ID Number) (Insert U.S. Air Force Contract or AFM Contract number) (U.S. Air Force Contract or AFM Contract number)			
Training Plan and Implementation Period: 2021-2022			
Department:		U.S. Air Force	
Name of facility:		U.S. Air Force	
Class / Course / Program:		Subject: Design & Analysis of Algorithms (Theory)	Contract Order: 2021-2022
No. of students allowed per week: 10		No. of students allowed per semester: 20	No. of semesters allowed per semester: 2
Week of training	Topic Proposed	Topic to be covered in class	No. of students
1st	Introduction to algorithms - Complexity of Algorithms	Introduction to algorithms	10
2nd	Recursion - Binary Search, Merge Sort, Quick Sort	Recursion of Binary Search	10
3rd	Graphs (Undirected, Weighted, Directed, Graph Algorithms - Shortest Path, etc.)	Graph Algorithms	10
4th	Dynamic Programming - Fibonacci, Knapsack & Shortest Path, etc.	Dynamic Programming	10
5th	Advanced Topics: Graph Algorithms & Shortest Path, etc.	Advanced Topics	10

Signature of Coordinator:  Signature of Subject Teacher: 



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT - KERALA**  
**UNIVERSITY OF CALICUT - KERALA**

**Working Paper and Experimental Report (WEP)**

<b>Department:</b>		<b>Dr. J. Jayaraman</b>	
<b>Name of Teacher:</b>		<b>Dr. J. Jayaraman</b>	
<b>Class / Section / Topic:</b>		<b>Subject: Design &amp; Analysis of Algorithms - Practical</b>	
<b>No. of Sections (Semester-wise):</b>		<b>Topic Code: 19A10001</b>	
<b>No. of Sections (Semester-wise):</b>		<b>No. of Sections (Semester-wise):</b>	
Sl. No.	Topic / Program	Date of Completion	No. of Sections
1	1. Design and Analysis of Algorithms - 2. Design and Analysis of Algorithms - 3. Design and Analysis of Algorithms - 4. Design and Analysis of Algorithms - 5. Design and Analysis of Algorithms -	19/10/2019	10
2	6. Design and Analysis of Algorithms - 7. Design and Analysis of Algorithms - 8. Design and Analysis of Algorithms -	19/10/2019	10
3	9. Design and Analysis of Algorithms - 10. Design and Analysis of Algorithms - 11. Design and Analysis of Algorithms - 12. Design and Analysis of Algorithms - 13. Design and Analysis of Algorithms - 14. Design and Analysis of Algorithms -	19/10/2019	10
<b>Signature of Teacher:</b>		<b>Signature of Teacher:</b>	



**UNIVERSITY OF CALicut**  
**OFFICE OF THE DEAN, COLLEGE OF ENGINEERING, TECHNOLOGY & DESIGN**  
**PO. P. BAKKADUPOOTHUR, KOTTAYAM, DISTRICT, KERALA - 686002**

**Training Plan and Log-Book for Semester III**

<b>To parents</b>		<b>No. of Contact Hours</b>	
<b>Name of teacher</b>		<b>No. of Contact Hours</b>	
<b>Unit 1: Introduction to Python</b>		<b>10</b>	
<b>Unit 2: Data Structures and Algorithms</b>		<b>10</b>	
<b>Unit 3: Object-Oriented Programming</b>		<b>10</b>	
<b>Unit 4: Database Management Systems</b>		<b>10</b>	
<b>Unit 5: Introduction to Java</b>		<b>10</b>	
<b>Week of training</b>	<b>Topic/Project</b>	<b>Topic/Project covered with notes</b>	<b>No. of lectures</b>
01	History and Use of Python in various applications	All proposed topics were covered	01
02	Simple variables, Data and how variables function in python	All proposed topics were covered	02
03	Python syntax, Identifiers, Keywords, Comments, Operators, Expressions, Statements, Indentation, Constants and Variables, Type Conversion, Casting, Input and Output, Lists, Tuples, Dictionaries, Sets, and Frozensets, String, Boolean, None, and Arithmetic Operators, Comparison Operators, Logical Operators, Bitwise Operators, Membership Operators, Identity Operators, and Assignment Operators, Conditional Operators, Loops, Break, Continue, and Pass, Exception Handling, File Handling, and Database Management Systems	All proposed topics were covered	03
04	Modules and Packages, Classes and Objects, Constructors, Destructors, Inheritance, Polymorphism, Abstraction, Encapsulation, and Decorators, Lambda Functions, Generators, and Comprehensions, Regular Expressions, and Date and Time, and Introduction to Java	All proposed topics were covered	04
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



**STATE OF TEXAS**  
**COMMISSION ON POSTSECONDARY EDUCATION**  
**OFFICE OF THE EXECUTIVE DIRECTOR**

**Training Plan and Performance Report (TRP-AR)**

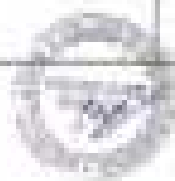
<b>Applicant:</b>		<b>Dr. J. [Signature]</b>	
<b>Employer:</b>		<b>Dr. [Signature]</b>	
<b>TRP-AR Number:</b>		<b>Project:</b>	<b>Budget Code:</b>
<b>No. of hours allocated per week (0-100):</b>		<b>No. of hours allocated per semester (0-16):</b>	<b>No. of weeks allocated per semester (0-16):</b>
<b>Week #</b>	<b>Task Assigned</b>	<b>Hours Assigned (0-100)</b>	<b>No. of Weeks</b>
1	1. [Task description]	100	16
2	2. [Task description]	100	16
3	3. [Task description]	100	16
4	4. [Task description]	100	16
<b>Signature of Applicant:</b> [Signature]		<b>Signature of Employer:</b> [Signature]	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT - COLLEGE OF DISTANCE EDUCATION**  
**DEPARTMENT OF DISTANCE EDUCATION, MALAPPURAM CAMPUS**

**Final Year and Back-examination Report (2021-22)**

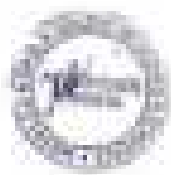
<b>Registration No.</b>		<b>U.S. / Register Number</b>	
<b>Name of student</b>		<b>Roll Number</b>	
<b>Class / Section / Semester</b>		<b>College / Institute / Center</b>	<b>Subject Code / Title</b>
<b>No. of Semesters / Semesters per week</b>		<b>No. of Semesters / Semesters per Semester</b>	<b>No. of Semesters / Semesters per Semester</b>
Sl. No.	Name of the Course	No. of papers / Semesters	No. of papers
01	Introduction to Programming I (C++) (After practical programming exercises, they complete of their own programming projects of their interest programming, short interest programs, application of their interest programming) Tutorial exercises, exercises, exercises, short programs and using programs, built-in classes, classes of C++ and related classes, arrays, loops, pointers, structures, unions and strings in C++.	02 papers / semesters	02
02	File System, File operations and System Networks, Client-Server Client-Server, Database Process Management & Synchronization Operating System	02 papers / semesters	02
03	Programming Building Knowledge in Java Program, Database, Application development and related programming projects Database Mobile Application	02 papers / semesters	02
04	Network, Programming Project Final Project	02 papers / semesters	02
<b>Signature of Examiners:</b> 		<b>Signature of Subject Teacher:</b> 	



**UNIVERSITI TEKNOLOGI MALAYSIA**  
**UNIVERSITY OF MALAYA (UM) MALAYSIAN FEDERAL GOVERNMENT**  
**UM 5, BANGSAKUNINGGAN, SEREMBAN, NEGERI SEMBILAN, 70300**

**Testing (Pre and Post-Test) Report (2017-18)**

<b>Department:</b>		<b>Dr. Farhana Haniffa</b>	
<b>Name of teacher:</b>		<b>Dr. Farhana Haniffa</b>	
<b>Class / Section / Topic:</b>		<b>Subject: ACCOUNTING IN BANKING (2017-18)      Faculty/Field: FBM/AFBS</b>	
<b>No. of classes/Attempt per week (10/10)</b>		<b>No. of classes/Attempt per Semester (10)</b>	
<b>Tests or Quizzes</b>	<b>Test Proposed</b>	<b>Actual Test Conducted with reason</b>	<b>No. of Attempts</b>
<b>101</b>	<ol style="list-style-type: none"> <li>1. Progress to determine use of the knowledge &amp; transfer learning</li> <li>2. Progress to determine use of feedback and transfer knowledge using class</li> <li>3. Progress to determine use of self and peer assessment using online system</li> <li>4. Progress to determine use of self and peer assessment using online system</li> </ol>	All proposed tests were conducted	10
<b>102</b>	<ol style="list-style-type: none"> <li>1. Progress to determine use of public, personal &amp; private assessment</li> <li>2. Progress to determine use of self and peer assessment</li> <li>3. Progress to determine use of self and peer assessment</li> </ol>	All proposed tests were conducted	10
<b>103</b>	<ol style="list-style-type: none"> <li>1. Progress to determine use of self and peer assessment</li> <li>2. Progress to determine use of self and peer assessment</li> <li>3. Progress to determine use of self and peer assessment</li> <li>4. Progress to determine use of self and peer assessment</li> </ol>	All proposed tests were conducted	10
<b>Signature of Candidate:</b>		<b>Signature of Lecturer/Teacher:</b>	



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF CHEMISTRY**  
**1285 CHILDS HALL, BERKELEY, CALIF. 94720-1285**

**Training Plan and Supplemental Form # 1007-01**

<b>Department</b>		<b>UC Campus Name</b>	
<b>Point of contact</b>		<b>UC Point of Contact</b>	
<b>Phone # (916) 495-1234</b>		<b>Subject: Polymer Science - Physics</b>	<b>Subject Code: 001-0001</b>
<b>No. of courses selected per semester I</b>		<b>No. of Semesters Estimated per semester II</b>	<b>No. of Semesters Allocated per semester III</b>
Grade of Working	Topic Selected	Topic and Personal Information	No. of Semesters
III	<ul style="list-style-type: none"> <li>1. Introduction to polymer using IR Spectroscopy</li> <li>2. Polymer Chemistry</li> <li>3. Synthesis of Polymers</li> <li>4. Polymer Physics</li> <li>5. Kinetics of Polymerization</li> <li>6. Structure-property relationships</li> <li>7. Biopolymers</li> </ul>	All proposed topics are approved	10
III	<ul style="list-style-type: none"> <li>8. Structure-property relationships</li> <li>9. Synthesis of Polymers</li> <li>10. Polymer Chemistry</li> <li>11. Polymer Physics</li> <li>12. Biopolymers</li> <li>13. Kinetics of Polymerization</li> </ul>	All proposed topics are approved	10
III	<ul style="list-style-type: none"> <li>14. Kinetics of Polymerization</li> <li>15. Polymer Chemistry</li> <li>16. Polymer Physics</li> <li>17. Synthesis of Polymers</li> </ul>	All proposed topics are approved	10
<b>Signature of Supervisor:</b> 			



**UNIVERSITY OF KENYA**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF EDUCATION**

**Faculty/Unit and Implementation Review (FIR) Form**

<b>Department:</b>		E-LEARNING	
<b>Type of work:</b>		E-LEARNING	
<b>Class / Unit / Programme:</b>		E-LEARNING	
<b>No. of courses offered per semester:</b>		E-LEARNING	
<b>No.</b>	<b>Topic/Proposal</b>	<b>Report Date/Issued with status</b>	<b>No. of courses</b>
001	Introduction to E-LEARNING - Online modules - Learning Management System (LMS)	2023 prepared report with content	01
002	002 - Introduction to E-LEARNING - Online modules - Learning Management System (LMS)	2023 prepared report with content	01
003	003 - Introduction to E-LEARNING - Online modules - Learning Management System (LMS)	2023 prepared report with content	01
004	004 - Introduction to E-LEARNING - Online modules - Learning Management System (LMS)	2023 prepared report with content	01
<b>Signature of Head of Department:</b>		<b>Signature of Subject Teacher:</b>	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT LIBRARY AND INFORMATION SERVICES**  
**THE U. S. LIBRARY AND INFORMATION SERVICES**

**Training Plan and Implementation Report (2022-23)**

<b>Department</b>		U. S. Library Services	
<b>Name of teacher</b>		Dr. Farheen Ghani	
<b>Class / U. S. Lib. Services / U. S. Lib. Services / Library / Subject Code</b>		U. S. LIB	
<b>No. of Sessions / Semesters / Units / 01</b>		<b>No. of Sessions / Semesters / Units / 01</b>	
<b>Sl. No.</b>	<b>Topic / Program</b>	<b>Mode of Learning / Delivery</b>	<b>No. of Sessions</b>
01	Introduction to Library and Information Services	Self-paced / Self-directed	01
02	Library Functions / Role and Functions / Library / Information Services / Library / Information Services / Library / Information Services	Self-paced / Self-directed	01
03	Library / Information Services / Library / Information Services / Library / Information Services / Library / Information Services	Self-paced / Self-directed	01
04	Library / Information Services / Library / Information Services / Library / Information Services / Library / Information Services	Self-paced / Self-directed	01
<b>Signature of Librarian</b>		<b>Signature of Subject Teacher</b>	



UNIVERSITY OF CALicut  
 DEPARTMENT OF DISTANCE EDUCATION  
 SCHOOL OF DISTANCE EDUCATION, KOTTAYAM CAMPUS

**Final Year and Intermediate Report (2022-23)**

<b>Department:</b>		<b>B. Sc. Computer Science</b>	
<b>Name of Candidate:</b>		<b>MS. Prathima Elizabeth</b>	
<b>Class / SEM:</b> (1) Intermediate II	<b>Subject / Section:</b> Political	<b>Subject Code: 14P03009</b>	
<b>No. of Essays Attempted per hour: (1) 01</b>	<b>No. of Answers Attempted per hour: (1) 01</b>	<b>No. of Essays Attempted per hour: (1) 01</b>	
Month of Writing	Topic Proposed	Topic Undertaken with reason	No. of Marks
<b>Jan.</b>	Review of Public Goods: a. Features of the public, its sources and ways, treatment of public goods. b. Types of public goods in our society. c. Comparison of features of public goods. d. Governmental treatment of public goods. e. Environmental Management. f. Environmental Management.	All proposed topics were covered.	100
<b>Feb.</b>	Migration: a. Features of migration. b. Types of migration. c. Environmental Migration.	All proposed topics were covered.	100
<b>Mar.</b>	Features of Income Taxation: a. Features of Income Taxation. b. Features of Income Taxation. c. Features of Income Taxation. d. Features of Income Taxation. e. Features of Income Taxation. f. Features of Income Taxation.	All proposed topics were covered.	100
<b>Signature of Candidate:</b> 		<b>Signature of Subject Teacher:</b> 	



**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**PGD & MASS MEDIA STUDIES**

**Marketing Plan and Implementation Model (MKT 101)**

<b>Department:</b>		<b>B.A. Commerce</b>	
<b>Name of Institute:</b>		<b>U.C. DED, Calicut</b>	
<b>Class / Section / Sem / Term:</b>		<b>Subject Code: MKT 101</b>	
<b>No. of Semesters Allowed per week: 01/01</b>		<b>No. of Semesters Allowed per Semester: 01</b>	
<b>Weeks of teaching</b>	<b>Topic Proposed</b>	<b>Topic to be covered with marks</b>	<b>No. of Semesters</b>
<b>2nd</b>	1. Introduction 2. Environmental analysis and micro-environment 3. SWOT analysis	All proposed topics are covered	<b>01</b>
<b>3rd</b>	4. Marketing strategy formulation 5. Marketing mix of a firm 6. Financial planning 7. Long range planning 8. Budgeting	All proposed topics are covered	<b>01</b>
<b>4th</b>	9. Control system 10. Evaluation of marketing 11. Marketing ethics 12. Personal Selling 13. Sales promotion 14. Advertising 15. Public relations 16. Direct marketing	All proposed topics are covered	<b>01</b>
<b>Signature of V. Controller:</b>		<b>Signature of Subject Teacher:</b>	



**UNIVERSITY OF WYOMING**  
**COLLEGE OF EDUCATION AND PROFESSIONAL DEVELOPMENT**  
**DEPARTMENT OF EDUCATION**  
**Faculty Plan and Evaluation Form (2022-23)**

Department		UW - Wyoming Teacher	
Type of Position		Full Time Position	
Class / Title / Grade / Number		Subject / Content / Methods / Degree	
No. of Sessions (Maximum per week) /		No. of Sessions (Maximum per Semester) /	
Month of Meeting	Topic / Proposal	No. of Sessions Approved	No. of Sessions
		No. of Sessions	No. of Sessions
09	Professional Development - Leadership Training for New Teachers	10	10
10	Professional Development - Leadership Training for New Teachers	10	10
11	Professional Development - Leadership Training for New Teachers	10	10
12	Professional Development - Leadership Training for New Teachers	10	10
Signature of Supervisor		Signature of Faculty Member	







**UNIVERSITY OF KENYA**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

**Training Plan and Assessment Form (2020/21)**

<b>Department:</b>		EE, Electrical/Electronic	
<b>Name of teacher:</b>		M. Mwangi	
<b>Class:</b> EEE 201/21		<b>Subject:</b> Principles of Engineering Systems - Practical	<b>Subject Code:</b> EEE 201/21
<b>No. of lessons/Method per week:</b> 01/01		<b>No. of lessons/Week per Semester:</b> 10	<b>No. of lessons/Week per Semester:</b> 10
<b>Week of teaching:</b>	<b>Topic Proposed</b>	<b>Topic to be covered with content</b>	<b>No. of lessons</b>
1st	<ol style="list-style-type: none"> <li>1. Parallel connection</li> <li>2. Branch</li> <li>3. Write a program to give a solution to the branch's basic problem</li> <li>4. Write a program to give a solution to the branch's more problem</li> </ol>	10 parallel connection content	10
2nd	<ol style="list-style-type: none"> <li>1. Write a program for implementation of TV connecting circuit</li> <li>2. Write a program for implementation of TV connecting circuit</li> <li>3. Write a program for implementation of TV connecting circuit</li> <li>4. Write a program for implementation of TV connecting circuit</li> </ol>	10 parallel connection content	10
3rd	<ol style="list-style-type: none"> <li>1. Write a program for implementation of TV connecting circuit</li> <li>2. Write a program for implementation of TV connecting circuit</li> <li>3. Write a program for implementation of TV connecting circuit</li> <li>4. Write a program for implementation of TV connecting circuit</li> </ol>	10 parallel connection content	10
<b>Signature of Coordinator:</b>		<b>Signature of Subject Teacher:</b>	



**1. SUMMARY OF THE PROJECT**  
**2. PROJECT DESCRIPTION**  
**3. PROJECT OBJECTIVES**

**Summary of the Project Description**

<b>Project Name:</b>		<b>Project Location:</b>	
<b>Project Number:</b>		<b>Project Status:</b>	
<b>Project Start Date:</b>		<b>Project End Date:</b>	
<b>Project Description:</b>		<b>Project Objectives:</b>	
<b>No. of houses selected per week (1)</b>	<b>No. of houses selected per week (2)</b>	<b>No. of houses selected per week (3)</b>	<b>No. of houses selected per week (4)</b>
<b>Week of Selection</b>	<b>Project Description</b>	<b>Project Objectives</b>	<b>No. of houses</b>
1st	Project Description: Project description and objectives.	All project objectives are met.	10
2nd	Project Description: Project description and objectives.	All project objectives are met.	10
3rd	Project Description: Project description and objectives.	All project objectives are met.	10
4th	Project Description: Project description and objectives.	All project objectives are met.	10
5th	Project Description: Project description and objectives.	All project objectives are met.	10
<b>Signature of Project Manager:</b>		<b>Signature of Project Sponsor:</b>	



**LAURENCEVILLE SENIORS**  
**WHEELCHAIR & BATHING COURSE FOR ADULTS WITH A PHYSICAL**  
**OR SENSORY DISABILITY. ASSISTED BY VOLUNTEERS**

**Working Plan and Requirements Report 08/21/21**

<b>Requester</b>		R. N. Cooper House	
<b>Name of teacher</b>		Ms. Ann E. Smith	
<b>Course Title (C) Section (S)</b>		<b>Subject Area (subject) (P)</b>	<b>Subject Area (P) (S)</b>
<b>No. of Section (Mandatory) (M)</b>		<b>No. of Section (Mandatory) (M)</b>	<b>No. of Section (Mandatory) (M)</b>
<b>Week of teaching</b>	<b>Task Proposed</b>	<b>Days that event is proposed</b>	<b>No. of Activity</b>
<b>August</b>	<ol style="list-style-type: none"> <li>1. Give a program about bathroom safety to all single seniors</li> <li>2. Give a program to all seniors as to the different types of a and B wheelchairs and how to use them</li> <li>3. Give a program about using assistive devices (walkers)</li> <li>4. Give a program about</li> <li>5. Give a program about assistive devices (walkers, canes, crutches)</li> </ol>	all proposed dates are correct	10
<b>September</b>	<ol style="list-style-type: none"> <li>6. Give a program about using a walker to move around and avoid falls</li> <li>7. Give a program about using a walker to move around and avoid falls</li> <li>8. Give a program about the following: Give a course to all facility residents and staff about how to use the program of assistive devices in all programs</li> <li>9. Give a program about using assistive devices (walkers) and B</li> </ol>	all proposed dates are correct	10
<b>Signature of Requester</b>		<b>Signature of Requester</b>	





**STATE UNIVERSITY OF NEW YORK**  
**COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY**  
**161 N. SALMON ST. SATELLITE OFFICE, SUITE 201, AUSTIN, NY 13020**

**Learning Plan and Implementation Record (LPIR)**

<b>Description:</b>		<b>Who Completed:</b>	
<b>Name of teacher:</b>		<b>Date Submitted:</b>	
<b>Course: C-128 &amp; C-129 (Science II)</b>		<b>Subject Area Structure: Physical</b>	
		<b>Subject Code: C-128/129</b>	
<b>No. of lessons Addressed per week: (1) (2)</b>		<b>No. of lessons Covered per Semester: (3)</b>	
		<b>No. of lessons Addressed per Semester: (4)</b>	
Method teaching	Topic Proposed	Days for Coverage/Week	No. of lessons
<b>Lab</b>	<ol style="list-style-type: none"> <li>1. Write a program to implement <b>Newton's Law</b> (Topic: LAB1)</li> <li>2. Write a program to implement <b>Simple Pendulum</b> (Topic: LAB2)</li> <li>3. Write a program to implement <b>Simple Pendulum with variable length</b> (Topic: LAB3)</li> </ol>	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	(1)
	<ol style="list-style-type: none"> <li>4. Write a program to implement <b>Mass-spring system</b> (Topic: LAB4)</li> <li>5. Write a program to implement <b>Projectile Motion</b> (Topic: LAB5)</li> <li>6. Write a program to implement <b>Projectile Motion with air resistance</b> (Topic: LAB6)</li> </ol>	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	(2)
	<ol style="list-style-type: none"> <li>7. Write a program to implement <b>Projectile Motion with air resistance</b> (Topic: LAB7)</li> <li>8. Write a program to implement <b>Projectile Motion with air resistance</b> (Topic: LAB8)</li> <li>9. Write a program to implement <b>Projectile Motion with air resistance</b> (Topic: LAB9)</li> <li>10. Write a program to implement <b>Projectile Motion with air resistance</b> (Topic: LAB10)</li> </ol>	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	(3)
<b>Signature of Teacher:</b> _____ <i>[Signature]</i>		<b>Signature of Student:</b> _____ <i>[Signature]</i>	





**UNIVERSITY OF CALICUT**  
**UNIVERSITY COLLEGE OF DISTANCE EDUCATION**  
**THE UNIVERSITY COLLEGE OF DISTANCE EDUCATION, KALAMANGALAM**

**Faculty of Education, Kalamangalam**

Department		B.Ed. (Computer Science)	
Semester		III	
Name of the Candidate		[Name]	
Roll No.		[Roll No.]	
No. of questions attempted per week - (10)		No. of questions answered per semester - (14)	
No. of questions attempted per week - (10)		No. of questions attempted per semester - (14)	
Sl. No.	Topic	Topic covered with answer	No. of Marks
1	1. Explain the following terms: a) Data b) Information c) Database d) File e) Record	10 (Detailed answer)	10
2	2. Explain the following terms: a) Data b) Information c) Database d) File e) Record	10 (Detailed answer)	10
3	3. Explain the following terms: a) Data b) Information c) Database d) File e) Record	10 (Detailed answer)	10
Signature of Candidate		Signature of Examiner	



**CLASSIFICATION: PUBLIC**  
**UNITED STATES DEPARTMENT OF AGRICULTURE**  
**OFFICE OF THE SECRETARY OF AGRICULTURE**

**Working Paper for Implementation Report (WPIR)**

<b>Department:</b>		USDA, Department of Agriculture	
<b>Name of Agency:</b>		USDA, Office of the Secretary	
<b>Title of WPIR (Section 101):</b>		<b>Internal and External Communication Development - Phase 1</b>	<b>Report Code: 070-1000</b>
<b>No. of Issues Addressed per Issue 101:</b>		<b>No. of Issues Covered per Issue 101:</b>	<b>No. of Issues Addressed per Issue 101:</b>
<b>Issue #</b>	<b>Issue Proposed</b>	<b>Issue Not Covered with reason</b>	<b>No. of Issues</b>
101	Internal and External Communication Development - Phase 1	All proposed issues were covered	10
102	Internal and External Communication Development - Phase 1	All proposed issues were covered	11
103	Internal and External Communication Development - Phase 1	All proposed issues were covered	12
<b>Signature of Coordinator:</b>		<b>Signature of Subject Specialist:</b>	



**UNIVERSITY OF CALicut**  
**DEPARTMENT OF MATHEMATICS**  
**DEPARTMENT OF DISTANCE EDUCATION**  
**DEPARTMENT OF MATHEMATICS**

**Teaching Plan and Implementation Record (2023-24)**

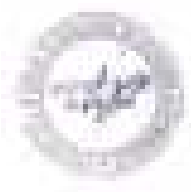
Department:		B.Sc. Computer Science					
Name of teacher:		Mr. Jeeva Kumar					
Class / I / II / III / IV / V / VI / VII / VIII / IX / X / XI / XII / B.A. / B.Com. / B.Sc. / B.Tech. / M.A. / M.Com. / M.Sc. / M.Tech. / Ph.D. / P.T. / J.T. / S.T. / A.T. / B.T. / C.T. / D.T. / E.T. / F.T. / G.T. / H.T. / I.T. / J.T. / K.T. / L.T. / M.T. / N.T. / O.T. / P.T. / Q.T. / R.T. / S.T. / T.T. / U.T. / V.T. / W.T. / X.T. / Y.T. / Z.T. / AA.T. / AB.T. / AC.T. / AD.T. / AE.T. / AF.T. / AG.T. / AH.T. / AI.T. / AJ.T. / AK.T. / AL.T. / AM.T. / AN.T. / AO.T. / AP.T. / AQ.T. / AR.T. / AS.T. / AT.T. / AU.T. / AV.T. / AW.T. / AX.T. / AY.T. / AZ.T. / BA.T. / BB.T. / BC.T. / BD.T. / BE.T. / BF.T. / BG.T. / BH.T. / BI.T. / BJ.T. / BK.T. / BL.T. / BM.T. / BN.T. / BO.T. / BP.T. / BQ.T. / BR.T. / BS.T. / BT.T. / BU.T. / BV.T. / BW.T. / BX.T. / BY.T. / BZ.T. / CA.T. / CB.T. / CC.T. / CD.T. / CE.T. / CF.T. / CG.T. / CH.T. / CI.T. / CJ.T. / CK.T. / CL.T. / CM.T. / CN.T. / CO.T. / CP.T. / CQ.T. / CR.T. / CS.T. / CT.T. / CU.T. / CV.T. / CW.T. / CX.T. / CY.T. / CZ.T. / DA.T. / DB.T. / DC.T. / DD.T. / DE.T. / DF.T. / DG.T. / DH.T. / DI.T. / DJ.T. / DK.T. / DL.T. / DM.T. / DN.T. / DO.T. / DP.T. / DQ.T. / DR.T. / DS.T. / DT.T. / DU.T. / DV.T. / DW.T. / DX.T. / DY.T. / DZ.T. / EA.T. / EB.T. / EC.T. / ED.T. / EE.T. / EF.T. / EG.T. / EH.T. / EI.T. / EJ.T. / EK.T. / EL.T. / EM.T. / EN.T. / EO.T. / EP.T. / EQ.T. / ER.T. / ES.T. / ET.T. / EU.T. / EV.T. / EW.T. / EX.T. / EY.T. / EZ.T. / FA.T. / FB.T. / FC.T. / FD.T. / FE.T. / FF.T. / FG.T. / FH.T. / FI.T. / FJ.T. / FK.T. / FL.T. / FM.T. / FN.T. / FO.T. / FP.T. / FQ.T. / FR.T. / FS.T. / FT.T. / FU.T. / FV.T. / FW.T. / FX.T. / FY.T. / FZ.T. / GA.T. / GB.T. / GC.T. / GD.T. / GE.T. / GF.T. / GG.T. / GH.T. / GI.T. / GJ.T. / GK.T. / GL.T. / GM.T. / GN.T. / GO.T. / GP.T. / GQ.T. / GR.T. / GS.T. / GT.T. / GU.T. / GV.T. / GW.T. / GX.T. / GY.T. / GZ.T. / HA.T. / HB.T. / HC.T. / HD.T. / HE.T. / HF.T. / HG.T. / HH.T. / HI.T. / HJ.T. / HK.T. / HL.T. / HM.T. / HN.T. / HO.T. / HP.T. / HQ.T. / HR.T. / HS.T. / HT.T. / HU.T. / HV.T. / HW.T. / HX.T. / 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No. of lessons allotted per week: 05		No. of lessons covered per semester: 05		No. of lessons allotted per semester: 05	
Week of teaching	Topic Proposed	Topic Covered with content	No. of lessons				
1st	<ol style="list-style-type: none"> <li>1. Write a program to create a class and implement the concept of Constructors (Overloading, Method overriding, this method)</li> <li>2. Write a program to implement the concept of Inheritance and Method Overriding</li> <li>3. Write a program to implement the concept of Abstract classes and methods</li> <li>4. Write a program to implement the concept of Interfaces</li> <li>5. Write a program to implement the concept of Packages</li> <li>6. Write a program to define and use annotations and use them as per the requirement</li> <li>7. Write a program to demonstrate the treatment of Java SE and JSP</li> <li>8. Write a program to create and use annotations</li> <li>9. Write a JSP program to represent the use of a page directive</li> <li>10. Write a JSP program to obtain the data on a specified condition on a page with</li> <li>11. Write a JSP program to create a session object and use it as per the requirement</li> </ol>	05 lessons (class and content)	05				
2nd	<ol style="list-style-type: none"> <li>1. Write a program to create a class and implement the concept of Constructors (Overloading, Method overriding, this method)</li> <li>2. Write a program to implement the concept of Inheritance and Method Overriding</li> <li>3. Write a program to implement the concept of Abstract classes and methods</li> <li>4. Write a program to implement the concept of Interfaces</li> <li>5. Write a program to implement the concept of Packages</li> <li>6. Write a program to define and use annotations and use them as per the requirement</li> <li>7. Write a program to demonstrate the treatment of Java SE and JSP</li> <li>8. Write a program to create and use annotations</li> <li>9. Write a JSP program to represent the use of a page directive</li> <li>10. Write a JSP program to obtain the data on a specified condition on a page with</li> <li>11. Write a JSP program to create a session object and use it as per the requirement</li> </ol>	05 lessons (class and content)	05				



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	<p>10. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>11. Write a journal that displays the debit and credit of the entry above in the chart. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>12. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>13. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>14. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>15. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>16. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>17. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>18. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>19. Write a journal that displays the debit and credit of the entry above in the chart.</p> <p>20. Write a journal that displays the debit and credit of the entry above in the chart.</p>		
<p>Signature of Student: _____</p>	<p>Signature of Subject Teacher: _____</p>		



**COMMITTEE REPORT**  
**COMMISSION ON THE STATE OF TEXAS**  
**OFFICE OF THE ATTORNEY GENERAL**

**Working Plan and Progress Report Through 10/1/00**

Page: \_\_\_\_\_ of \_\_\_\_\_

Case No. \_\_\_\_\_

Case Title: \_\_\_\_\_

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Signature of \_\_\_\_\_

Signature of \_\_\_\_\_

**UNIVERSITY OF KENYA**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF EDUCATION**

**Examination Board (2023)**

<b>Department:</b>		DE - Computer Science	
<b>Course/Programme:</b>		BA, Public Administration	
<b>Class:</b> 11111111 (Semester II)		<b>Subject:</b> Public Administration - Practice	<b>Subject Code:</b> 11111111
<b>No. of questions attempted per week:</b> 10		<b>No. of questions attempted per Semester:</b> 20	<b>No. of questions attempted per Semester:</b> 20
<b>Marking</b>	<b>Topic/Question</b>	<b>Topic/Question</b>	<b>No. of Marks</b>
100	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	100
100	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	100
100	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss a strategy for addressing the</li> <li>a. Government's financial deficit. (10 marks)</li> <li>2. Discuss a strategy for addressing the</li> <li>a. Public health care system's challenges. (10 marks)</li> </ol>	100



	<p>1. <b>Administrative</b> (including membership, dues, and other matters)</p> <p>2. <b>Financial</b> (including budget, income, and expenses)</p> <p>3. <b>Programs</b> (including activities, projects, and services)</p> <p>4. <b>Membership</b> (including recruitment, retention, and development)</p> <p>5. <b>Public Relations</b> (including media, press, and community relations)</p> <p>6. <b>Legal</b> (including contracts, litigation, and compliance)</p> <p>7. <b>Other</b> (including miscellaneous matters)</p>		
<p><b>Item</b></p>	<p>1. <b>Administrative</b> (including membership, dues, and other matters)</p> <p>2. <b>Financial</b> (including budget, income, and expenses)</p> <p>3. <b>Programs</b> (including activities, projects, and services)</p> <p>4. <b>Membership</b> (including recruitment, retention, and development)</p> <p>5. <b>Public Relations</b> (including media, press, and community relations)</p> <p>6. <b>Legal</b> (including contracts, litigation, and compliance)</p> <p>7. <b>Other</b> (including miscellaneous matters)</p>	<p>1. <b>Administrative</b> (including membership, dues, and other matters)</p> <p>2. <b>Financial</b> (including budget, income, and expenses)</p> <p>3. <b>Programs</b> (including activities, projects, and services)</p> <p>4. <b>Membership</b> (including recruitment, retention, and development)</p> <p>5. <b>Public Relations</b> (including media, press, and community relations)</p> <p>6. <b>Legal</b> (including contracts, litigation, and compliance)</p> <p>7. <b>Other</b> (including miscellaneous matters)</p>	<p>1. <b>Administrative</b> (including membership, dues, and other matters)</p> <p>2. <b>Financial</b> (including budget, income, and expenses)</p> <p>3. <b>Programs</b> (including activities, projects, and services)</p> <p>4. <b>Membership</b> (including recruitment, retention, and development)</p> <p>5. <b>Public Relations</b> (including media, press, and community relations)</p> <p>6. <b>Legal</b> (including contracts, litigation, and compliance)</p> <p>7. <b>Other</b> (including miscellaneous matters)</p>
<p>Number of Pages: <u>10</u></p>	<p>Number of Pages: <u>10</u></p>		



**UNIVERSITY OF CALICUT**  
**SCHOOL OF DISTANCE EDUCATION**  
**UNIVERSITY CAMPUS, CALICUT - 673 033**

**Learning Plan and Implementation Report (2023-24)**

<b>Department</b>		<b>U.S. Computer Science</b>	
<b>Name of Faculty</b>		<b>Dr. Vinod George</b>	
<b>Year of Study (Semester)</b>		<b>Second Year (2023-24)</b>	<b>Subject Code: U.S.2023</b>
<b>No. of classes scheduled per week (1)</b>		<b>No. of classes conducted per Semester (2)</b>	<b>No. of classes attended per Semester (3)</b>
<b>Weeks of teaching</b>	<b>Topic Proposed</b>	<b>Topic Conducted with reason</b>	<b>No. of classes</b>
<b>1st</b>	<p>History of Computer Science, Basic Processes for Writing an Essay, Academic Writing (Writing for Exams), writing an Abstract, Writing Short Stories and Poems, Writing an Introduction, writing an Outline, Writing an Introduction, writing an Essay, Writing a Summary Page, Writing a Conclusion, writing a Final Page, Writing the Main Body, Writing the Bibliography, Writing a Report.</p>	<b>All proposed topics were covered.</b>	<b>08</b>
<b>2nd</b>	<p>Introduction to Computer Science, What is a Computer, The History of Computers, Writing an Introduction, The Microprocessors, Processing the Data, Storing the Information, Printing the Data.</p>	<b>All proposed topics were covered.</b>	<b>08</b>
<b>Signature of Coordinator</b> 		<b>Signature of Subject Teacher</b> 	



**Teaching Plan Computer Science Department 2023/2024**  
**CYR No. COMPUTER SCIENCE**  
**SEMESTER**

<p align="center">COMPUTER SCIENCE DEPARTMENT</p> <p align="center">2023/2024</p> <p align="center">CYR No. COMPUTER SCIENCE</p> <p align="center">SEMESTER</p>			
<p align="center">Teaching Plan and Assessment Strategy (M.A. 10)</p>			
Department:		No. of Computer Science	
Faculty/Instructor:		No. of Lectures/Practicals	
Class: C.S. 101 (10 Students)		Subject: Theory of Computation (MATH)	Prerequisites: Discrete Math
No. of Lectures Allocated per week: 10		No. of Lectures Allocated per Semester: 40	No. of Lectures Allocated per Semester: 40
Week	Topic Covered	Topic Not Covered (M.A. 10)	No. of Lectures
1st	Introduction to Automata Theory, Formal Languages, Finite Automata, Regular Expressions, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	Introduction to Automata Theory, Formal Languages, Finite Automata, Regular Expressions, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	10
2nd	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	10
3rd	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	10
4th	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	10
5th	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	Regular Expressions, Finite Automata, Pumping Lemma, Turing Machines, Decidability, Complexity Theory, and Introduction to Formal Logic.	10
Approved by: 		Approved by: 	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT - UNIVERSITY OF DISTANCE EDUCATION**  
**DEPARTMENT OF DISTANCE EDUCATION - UNIVERSITY OF CALICUT**

**Learning Plan and Implementation Record (2021-22)**

<b>Department:</b>		<b>B.Sc. Computer Science</b>	
<b>Name of teacher:</b>		<b>Dr. Madhu Lakshmi</b>	
<b>Week's / Unit's / Session's:</b>		<b>Subject: Theory of Automata - Formal</b>	<b>Subject Code: PHE03002</b>
<b>No. of lessons / Material per week: (1-12)</b>	<b>No. of lessons / Material per Session: (6)</b>	<b>No. of Sessions / Material per Session: (6)</b>	
<b>Serial of teaching</b>	<b>Topic / Content</b>	<b>Topic / Content / Material / Source</b>	<b>No. of Sessions</b>
100	<ol style="list-style-type: none"> <li>1. What is program for identification of given input</li> <li>2. What is program for generating regular expressions for regular grammar</li> <li>3. What is program for generating minimal equivalent language for the given regular expression</li> </ol>	Self prepared notes / web content	06
101	<ol style="list-style-type: none"> <li>4. Design a Program for finding whether the string given is accepted or not.</li> <li>5. Design a Program for finding whether the string given is accepted or not using stack.</li> <li>6. Design a program for generating minimal equivalent language.</li> </ol>	Self prepared notes / web content	06
102	<ol style="list-style-type: none"> <li>7. Design a program for finding a minimum DFA for a given string having regular expression.</li> <li>8. Design a program for finding a minimum DFA for a given regular expression.</li> <li>9. Design a DFA for a given regular expression and verify it using regular expression.</li> <li>10. Design a Turing machine for a given the following regular expression.</li> </ol>	Self prepared notes / web content	06
<b>Signature of Teacher:</b>		<b>Signature of Subject Teacher:</b>	





**STATE UNIVERSITY OF NEW YORK  
COLLEGE OF EDUCATION - STATE UNIVERSITY COLLEGE  
OF NEW YORK**

**Learning Plan and Implementation Report (LPIR)**

<b>Department</b>		State University College of New York	
<b>Name of Faculty</b>		Dr. [Name]	
<b>Class # (e.g., EDU 101)</b>		<b>Section / Course Title</b>	<b>Section / Course Title</b>
<b>No. of classes offered per semester (I)</b>	<b>No. of classes offered per semester (II)</b>	<b>No. of classes offered per semester (II)</b>	
<b>Weeks of teaching</b>	<b>Topic / Project</b>	<b>Topic / Project with notes</b>	<b>No. of classes</b>
1st	Introduction to the course, the syllabus, and the instructor.	All projects were submitted.	1st
2nd	Introduction to the course, the syllabus, and the instructor.	All projects were submitted.	1st
3rd	Introduction to the course, the syllabus, and the instructor. The first project was submitted. The second project was submitted. The third project was submitted. The fourth project was submitted. The fifth project was submitted. The sixth project was submitted. The seventh project was submitted. The eighth project was submitted. The ninth project was submitted. The tenth project was submitted.	All projects were submitted.	1st
4th	Introduction to the course, the syllabus, and the instructor. The first project was submitted. The second project was submitted. The third project was submitted. The fourth project was submitted. The fifth project was submitted. The sixth project was submitted. The seventh project was submitted. The eighth project was submitted. The ninth project was submitted. The tenth project was submitted.	All projects were submitted.	1st
5th	Introduction to the course, the syllabus, and the instructor. The first project was submitted. The second project was submitted. The third project was submitted. The fourth project was submitted. The fifth project was submitted. The sixth project was submitted. The seventh project was submitted. The eighth project was submitted. The ninth project was submitted. The tenth project was submitted.	All projects were submitted.	1st
6th	Introduction to the course, the syllabus, and the instructor. The first project was submitted. The second project was submitted. The third project was submitted. The fourth project was submitted. The fifth project was submitted. The sixth project was submitted. The seventh project was submitted. The eighth project was submitted. The ninth project was submitted. The tenth project was submitted.	All projects were submitted.	1st
<b>Signature of Instructor</b>		<b>Signature of Student</b>	



**LABOR CONTRACTORS BOARD**  
**REPUBLIC OF THE PHILIPPINES**  
**OFFICE OF THE SECRETARY**

**Training Plan and Implementation Report (TRIP)**

<b>Department</b>		BPO - Computer Related	
<b>Name of worker</b>		Mr. [Name]	
<b>Date: 1/18/2018</b>		<b>Budget Category: Training - Other</b>	<b>Budget Code: 150-000</b>
<b>No. of lessons intended per month (1)</b>		<b>No. of lessons intended per semester (2)</b>	<b>No. of lessons intended per semester (3)</b>
Week of training	Topic/Program	Topic / Lesson with notes	No. of Lessons
1st	Introduction, The Basics of Software, Software Engineering, Software Software Development Lifecycle, Software Project Management, PDM, Quality Control and Assurance, Software Models, Standard Model, Requirements and Software Development Models, Software Development and Software Management, Software Quality and Testing, Software	1st presentation completed	10
2nd	Software Engineering, Software Development Lifecycle, Software Project Management, PDM, Quality Control and Assurance, Software Models, Standard Model, Requirements and Software Development Models, Software Development and Software Management, Software Quality and Testing, Software	2nd presentation completed	10
3rd	Software Engineering, Software Development Lifecycle, Software Project Management, PDM, Quality Control and Assurance, Software Models, Standard Model, Requirements and Software Development Models, Software Development and Software Management, Software Quality and Testing, Software	3rd presentation completed	10
4th	Software Engineering, Software Development Lifecycle, Software Project Management, PDM, Quality Control and Assurance, Software Models, Standard Model, Requirements and Software Development Models, Software Development and Software Management, Software Quality and Testing, Software	4th presentation completed	10
<b>Signature of Contractor</b>		<b>Signature of Employer</b>	



**STATE OF TEXAS  
COMMISSION ON POSTSECONDARY EDUCATION  
OFFICE OF THE EXECUTIVE DIRECTOR**

**Review Plan and Implementation Report (RIPR)**

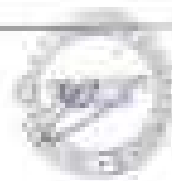
<b>Requester:</b>		Dr. [Signature]	
<b>Name of the Act:</b>		[Signature]	
<b>Plan: 1 (2011) (2012) (2013) (2014)</b>		<b>Subject without Exemption / Priority:</b>	<b>Requester ID / RFP#:</b>
<b>No. of classes identified under the act (total):</b>		<b>No. of classes identified as Section 19:</b>	<b>No. of classes identified as Section 20:</b>
<b>Class ID Number</b>	<b>Class Name</b>	<b>Class is identified as Section 19</b>	<b>No. of Sections</b>
100	1. [Class Name]	[Section]	[Count]
	2. [Class Name]		
	3. [Class Name]		
101	4. [Class Name]	[Section]	[Count]
	5. [Class Name]		
	6. [Class Name]		
	7. [Class Name]		
102	8. [Class Name]	[Section]	[Count]
	9. [Class Name]		
	10. [Class Name]		
<b>Signature of Requester:</b> [Signature]		<b>Signature of Reviewer:</b> [Signature]	



**1. 2018-2019 BUDGET**  
**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF CHEMISTRY**

**Budget Planning Worksheet (2018-2019)**

<b>Department:</b>		02 - Chemistry	
<b>Division:</b>		02 - Faculty	
<b>Class of Budget:</b> (Select one)		<b>Department Code:</b> (Select one)	
<b>01 - Operating</b>		<b>01 - Faculty</b>	
<b>02 - Capital</b>		<b>02 - Faculty</b>	
<b>03 - Construction</b>		<b>03 - Faculty</b>	
<b>04 - Equipment</b>		<b>04 - Faculty</b>	
<b>05 - Other</b>		<b>05 - Faculty</b>	
<b>No. of Budgets (Total per month):</b>	<b>No. of Budgets (Total per Semester):</b>	<b>No. of Budgets (Total per Academic Yr):</b>	
<b>Month of Starting:</b>	<b>Fiscal Period:</b>	<b>Appropriation Code:</b>	<b>No. of Budgets:</b>
<b>01</b>	01 - Faculty	01 - Faculty	01
<b>02</b>	02 - Faculty	02 - Faculty	02
<b>03</b>	03 - Faculty	03 - Faculty	03
<b>04</b>	04 - Faculty	04 - Faculty	04
<b>05</b>	05 - Faculty	05 - Faculty	05
<b>Signature of Department Head:</b>		<b>Signature of Budget Officer:</b>	
			



**STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**UNIVERSITY OF ENGINEERING & TECHNOLOGY, KANPUR**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING**

**Training Plan and Implementation Report (2023-24)**

<b>Department:</b>		<b>Dr. P. K. Mishra</b>	
<b>Name of teacher:</b>		<b>Dr. P. K. Mishra</b>	
<b>From: 01/08/23 To: 31/07/24</b>		<b>Subject Code: ECE 2023</b>	
<b>No. of students (Attended): 01</b>		<b>No. of students (Absent): 00</b>	
<b>Sl. No.</b>	<b>Topic Covered</b>	<b>Topic Covered with course</b>	<b>No. of students</b>
01	1. No. of students (Attended): 01 2. Operational details of the system with the help of the students. 3. The system is designed to be used in the field.	All proposed topics were covered.	01
02	1. The system is designed to be used in the field. 2. The system is designed to be used in the field.	All proposed topics were covered.	01
03	1. The system is designed to be used in the field. 2. The system is designed to be used in the field.	All proposed topics were covered.	01
04	1. The system is designed to be used in the field. 2. The system is designed to be used in the field.	All proposed topics were covered.	01
<b>Signature of Teacher:</b> 		<b>Signature of Student:</b> 	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT - COLLEGE OF DISTANCE EDUCATION**  
**THE UNIVERSITY OF CALICUT - MALAPPURAM CAMPUS**

**Final Year and Registration Board (FAR) 2023**

<b>Department</b>		<b>6th Semester</b>	
<b>Name of the Unit</b>		<b>6A - Plant Tax</b>	
<b>Class / Section / TA Number (if any)</b>		<b>Subject Name/ Equivalent Department (if any)</b>	<b>Category Code (if any)</b>
<b>No. of Hours / Allocation (if any)</b>		<b>No. of Hours / Allocation (if any)</b>	<b>No. of Hours / Allocation (if any)</b>
<b>Sl. No.</b>	<b>Topic / Content</b>	<b>Type of Assessment</b>	<b>Weightage</b>
1	Introduction to Plant Taxonomy, Morphology, and Ecology of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
2	Classification of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
3	Plant Taxonomy, Morphology, and Ecology of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
4	Plant Taxonomy, Morphology, and Ecology of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
5	Plant Taxonomy, Morphology, and Ecology of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
6	Plant Taxonomy, Morphology, and Ecology of Plants, and the Role of Plants in the Environment.	100% (Theory)	100%
<b>Signature of Candidate</b>		<b>Signature of Internal Examiner</b>	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT UNIVERSITY OF DISTANCE EDUCATION**  
**UNIVERSITY OF CALICUT UNIVERSITY OF DISTANCE EDUCATION - 060001**

**Training Plan and Implementation Report (2023-24)**

<b>Department</b>		<b>Dr. K. Jayaram Kumar</b>	
<b>Name of teacher</b>		<b>Dr. K. Jayaram Kumar</b>	
<b>Class / L1 or L2 / Semester / II</b>		<b>Subject: Industrial Applications for Computers - Practical</b>	
<b>Subject Code: 24022001</b>		<b>Subject Code: 24022001</b>	
<b>No. of classes allotted per week (1st-12)</b>		<b>No. of classes covered per Semester: 16</b>	
<b>No. of classes allotted per Semester: 12</b>		<b>No. of classes allotted per Semester: 12</b>	
<b>Month of training</b>	<b>Topic Proposed</b>	<b>Days covered in the month</b>	<b>No. of classes</b>
<b>Jan</b>	<ol style="list-style-type: none"> <li>1. Study computer using various hardware and software. (Programmer's kit)</li> <li>2. Study an internal peripheral device and its connection. (Printer, Scanner, Webcam, Mouse, Modem etc.)</li> <li>3. Study an application software (Word, Power, Paint, etc.)</li> </ol>	All proposed topics were covered.	12
<b>Feb</b>	<ol style="list-style-type: none"> <li>1. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>2. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>3. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>4. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>5. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>6. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>7. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>8. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> </ol>	All proposed topics were covered.	16
<b>Mar</b>	<ol style="list-style-type: none"> <li>1. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>2. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>3. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>4. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>5. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>6. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>7. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> <li>8. Study an application software (Microsoft Office Word, Excel, PowerPoint, Access, etc.)</li> </ol>	All proposed topics were covered.	16
<b>Signature of Coordinator:</b>		<b>Signature of Subject Teacher:</b>	





**UNIVERSITY OF CALIFORNIA**  
**OFFICE OF THE CHIEF FINANCIAL OFFICER**  
**101 S. BARNES AVENUE, SUITE 100, LOS ANGELES, CALIF. 90024**

**Request for Bid/Proposal Form (RFQ-01)**

<b>Requester:</b>		<b>RFQ Number:</b>	
[Blank]		[Blank]	
<b>Name of Vendor:</b>		<b>RFQ Title:</b>	
[Blank]		[Blank]	
<b>Office: UC at [Blank]</b>		<b>Project: [Blank]</b>	
<b>No. of Services Estimated per Section 01</b>		<b>No. of Services Estimated per Section 02</b>	<b>No. of Services Estimated per Section 03</b>
<b>Section</b>	<b>Scope of Work</b>	<b>Scope of Work (Detailed Description)</b>	<b>No. of Bids</b>
001	<ol style="list-style-type: none"> <li>1. [Blank]</li> <li>2. [Blank]</li> <li>3. [Blank]</li> <li>4. [Blank]</li> <li>5. [Blank]</li> </ol>	[Blank]	0
002	<ol style="list-style-type: none"> <li>1. [Blank]</li> <li>2. [Blank]</li> <li>3. [Blank]</li> <li>4. [Blank]</li> </ol>	[Blank]	0
003	<ol style="list-style-type: none"> <li>1. [Blank]</li> <li>2. [Blank]</li> <li>3. [Blank]</li> </ol>	[Blank]	0
<b>Name of Vendor:</b> [Signature]		<b>Received by Requester:</b> [Signature]	



**1. STUDY REPORTS FOR THE  
 INTER-CITY & INTRA-CITY RAILWAY SAFETY, SECURITY & COMPLIANCE  
 (IC & IIR) PROJECTS UNDER THE RAILWAY SAFETY, SECURITY & COMPLIANCE ACT**

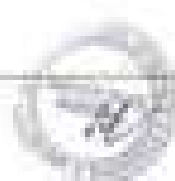
**Training Plan and Implementation Report (TRIP)**

<b>Department</b>		Railway Safety Division	
<b>Name of Project</b>		IC & IIR Projects	
<b>From 01/01/2018 to 31/03/2018</b>		<b>Number of Reports Submitted: Three</b>	<b>Number of Reports Approved: Three</b>
<b>No. of Reports Submitted per month:</b>		<b>No. of Reports Approved per Month:</b>	<b>No. of Reports Approved per Quarter:</b>
<b>Month of Issuance</b>	<b>Name of Report</b>	<b>Report Submitted with Status</b>	<b>No. of Reports</b>
Jan	Investigation to Identify Vulnerability, Working of Railway Management System, Maintenance of Railway Signalling System, Railway Signalling System and Railway Signalling System	All proposed reports approved	03
Feb	Research Report on Cyber Security, Working of Railway Signalling System, Maintenance of Railway Signalling System, Railway Signalling System and Railway Signalling System	All proposed reports approved	03
Mar	How to Improve the Railway Signalling System - Type I and Type II Signalling System, Railway Signalling System and Railway Signalling System	All proposed reports approved	03
Apr	Technical Working, Working of Type II Signalling System and Type II Signalling System and Type II Signalling System	All proposed reports approved	03
May	How to Improve the Railway Signalling System - Type I and Type II Signalling System, Railway Signalling System and Railway Signalling System	All proposed reports approved	03
Jun	How to Improve the Railway Signalling System - Type I and Type II Signalling System, Railway Signalling System and Railway Signalling System	All proposed reports approved	03
<b>Signature of Controller:</b>		<b>Signature of Project Officer:</b>	



**Teaching Plan Computer Science Department 2023/2024**  
**17834 - COMPUTER SCIENCE**  
**SEMESTER V**

1. COURSE INFORMATION COURSE ID: 17834   COURSE TITLE: 17834 - COMPUTER SCIENCE DEPARTMENT: COMPUTER SCIENCE   SEMESTER: V				
Teaching Plan and Implementation Record (2023/24)				
Department:				C.S. Computer Science
Course ID:				17834
Prerequisites:		Instructor:		Institution:
CSC 17833, CSC 17832		Dr. [Name]		[Institution Name]
No. of Lectures (Theoretical): 10		No. of Lectures (Practical): 10		No. of Lectures (Total): 20
Week of teaching	Topic / Content	Topic / Content	No. of Lectures	No. of Lectures
1st	Introduction to Computer Science, History of Computing, Fundamentals of Data Representation, Binary and Hexadecimal Systems, Number Systems, Units of Measurement, Storage of Data.	Introduction to Computer Science, History of Computing, Fundamentals of Data Representation, Binary and Hexadecimal Systems, Number Systems, Units of Measurement, Storage of Data.	10	10
2nd	Computer Architecture, Central Processing Unit (CPU), Memory Hierarchy, Input/Output Systems, Operating Systems, Process Management, File Systems, Networking, Security, Database Management, Software Engineering, Project Management, Career Paths, Ethics.	Computer Architecture, Central Processing Unit (CPU), Memory Hierarchy, Input/Output Systems, Operating Systems, Process Management, File Systems, Networking, Security, Database Management, Software Engineering, Project Management, Career Paths, Ethics.	10	10
3rd	Advanced Topics: Cloud Computing, Big Data, Artificial Intelligence, Cybersecurity, Emerging Technologies, Future Trends, Capstone Project, Final Exam Preparation.	Advanced Topics: Cloud Computing, Big Data, Artificial Intelligence, Cybersecurity, Emerging Technologies, Future Trends, Capstone Project, Final Exam Preparation.	10	10
4th	Final Review, Final Exam Preparation, Course Evaluation, Feedback, Future Studies, Career Advice.	Final Review, Final Exam Preparation, Course Evaluation, Feedback, Future Studies, Career Advice.	10	10
Signature of Lecturer:			Signature of Support Teacher:	



**STATE BOARD OF TECHNICAL EDUCATION**  
**100, 101 & 102, 10th Floor, Anna University, Chennai - 600 025**  
**(An Autonomous Institution, established in 1989)**

**Working Plan and Budget Approval Form (2021-22)**

<b>Department</b>		<b>Dr. V. Lakshmi Narayan</b>	
<b>Type of teacher</b>		<b>Dr. V. Lakshmi Narayan</b>	
<b>Plan for 100% of the semester</b>	<b>Subject: Technical Mathematics - Part II (A)</b>	<b>Subject Code: ET12104</b>	
<b>No. of classes (theoretical) week: 10</b>	<b>No. of classes covered per Semester: 10</b>	<b>No. of classes covered per Semester: 10</b>	
<b>Sl. No. of sections</b>	<b>Topic Proposed</b>	<b>Topic Not covered with reasons</b>	<b>No. of Sections</b>
100	<ol style="list-style-type: none"> <li>1. Graphs of Straight Lines (Slope, Y-Intercept)</li> <li>2. Graphs of Circles (Centre, Radius)</li> <li>3. Area and Perimeter</li> <li>4. Perimeter and Area of Similar Figures</li> <li>5. Similar Figures (Area, Volume)</li> <li>6. Similar Solids</li> <li>7. Similar Solids</li> </ol>	all proposed topics are covered	100
100	<ol style="list-style-type: none"> <li>1. Similar Figures, Area, Volume</li> <li>2. Area and Perimeter</li> <li>3. Similar Figures, Area, Volume</li> <li>4. Similar Solids</li> </ol> <p>English and Computer Laboratory at Anna University and Ministry of Education, Government of Tamil Nadu, Chennai. The regulations of Anna University and previous to Anna University are followed.</p>	all proposed topics are covered	100
<b>Signature of Headmaster:</b> 		<b>Signature of Section Teacher:</b> 	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT**  
**UNIVERSITY OF CALICUT**

**Building Plan and Implementation Report (BIPR)**

<b>Department:</b>		<b>Year of admission:</b>	
<b>Topic of research:</b>		<b>Year of completion:</b>	
<b>Project Title:</b>		<b>Project Code:</b>	
<b>No. of students enrolled per month:</b>		<b>No. of students enrolled per semester:</b>	
<b>Month of writing:</b>	<b>Year Proposed:</b>	<b>Department/Center/Unit:</b>	<b>No. of students:</b>
<b>Sl. No.</b>	<b>Description of the project:</b>	<b>Department/Center/Unit:</b>	<b>No. of students:</b>
1	Project Title: ...	Department/Center/Unit: ...	10
2	Project Title: ...	Department/Center/Unit: ...	10
3	Project Title: ...	Department/Center/Unit: ...	10
<b>Signature of Candidate:</b>		<b>Signature of Supervisor:</b>	



**UNIVERSITY OF CALicut**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF DISTANCE EDUCATION**

**Working Plan and Implementation Sheet (WPIIS)**

<b>Department</b>		<b>Dr. J. Jayaprakash</b>	
<b>Name of course</b>		<b>BA English</b>	
<b>Class / Section / Semester</b>		<b>Subject / Sub-Subject / Section / Special / Subject Code / Unit</b>	
<b>No. of classes (based on week 12)</b>		<b>No. of classes / weeks / papers / etc.</b>	<b>No. of classes / weeks / papers / etc.</b>
<b>Week of teaching</b>	<b>Topic / Program</b>	<b>Days / Time / Period / etc.</b>	<b>No. of classes</b>
<b>01</b>	Introduction, syllabus and assignments given BA's structure and the system History of Department of BA BA's structure	1st period 1st week	01
<b>02</b>	BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus BA's structure and BA's syllabus	2nd period 2nd week	01
<b>Signature of Lecturer</b>		<b>Signature of Head of Department</b>	



**LAKE CHARLES HIGH SCHOOL**  
**UNIVERSITY OF LOUISIANA SYSTEM OFFICE OF STATE & FEDERAL**  
**OFFICE OF PROFESSIONAL PERSONNEL - MEMPHIS, TENNESSEE 38153**

Rating (The job description must be rated)

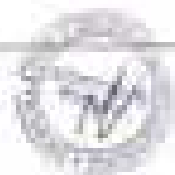
Department		2014 Computer Center	
Name of Position		20 - Tech Support	
Class / Title / ID Number	Subject Area / Level / Administrative - Class	Subject Code / Title / ID	
No. of Positions Available per Month	No. of Positions Available per Semester	No. of Positions Available per Academic Year	
Month of Posting	Type of Posting	Open Until Filled with Vacant	No. of Offers
Jan	Emergency - Temporary position of 1 year duration. Starting salary must meet minimum salary for the position. Starting pay: \$15,000.00.	All proposed offers received	00
July	Open - Full Time Position. Position of indefinite duration. Full Time Position and Salary: \$27,000.00. Position Description: Tech Support - Lake Charles High School, University of Louisiana System.	All proposed offers received	10
Sept	Open - Full Time Position. Position of indefinite duration. Full Time Position and Salary: \$27,000.00. Position Description: Tech Support - Lake Charles High School, University of Louisiana System.	All proposed offers received	00
November	Open - Full Time Position. Position of indefinite duration. Full Time Position and Salary: \$27,000.00. Position Description: Tech Support - Lake Charles High School, University of Louisiana System.	All proposed offers received	00
March	Open - Full Time Position. Position of indefinite duration. Full Time Position and Salary: \$27,000.00. Position Description: Tech Support - Lake Charles High School, University of Louisiana System.	All proposed offers received	00
Signed by Applicant			



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT**  
**UNIVERSITY OF CALICUT**

**Training Plan and Implementation Report (2023-24)**

<b>Department</b>		<b>UPE, Calicut Branch</b>	
<b>Name of Institute</b>		<b>Ms. Jyoti Institute</b>	
<b>Class / Section / Semester</b>		<b>Subject Code: UPE/PE/23</b>	
<b>No. of Institute visited per week/10</b>		<b>No. of Institute visited per Semester/10</b>	
<b>No. of Institute visited per Semester/10</b>		<b>No. of Institute visited per Semester/10</b>	
<b>Month of working</b>	<b>Topic Proposed</b>	<b>Topic Final selected (with reason)</b>	<b>No. of Institute</b>
<b>July</b>	1. <b>Module 1: Introduction to PE/23</b>	All proposed topics are selected	10
<b>Aug</b>	2. <b>Module 2: PE/23</b>	All proposed topics are selected	10
<b>September</b>	3. <b>Module 3: PE/23</b>	All proposed topics are selected	10
<b>Oct</b>	4. <b>Module 4: PE/23</b>	All proposed topics are selected	10
<b>Signature of the Coordinator:</b>		<b>Signature of the Head of Institute:</b>	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT COLLEGE OF EDUCATION, KADAPPA**  
**DEPT. OF EDUCATIONAL SCIENCE, PEDAGOGICAL COURSE - 19001**

**Working Plan and Implementation Report (2023-24)**

<b>Department</b>		<b>Dr. P. Jayaram Kumar</b>	
<b>Type of teacher</b>		<b>Asst. Professor</b>	
<b>Class / L.B.S./L.T. Section /</b>		<b>Subject / Core Programme - Theory</b>	<b>Subject Code: 1900101</b>
<b>No. of classes allotted per week - 01</b>		<b>No. of classes conducted per semester - 07</b>	<b>No. of classes allotted per semester - 07</b>
<b>Sl. No.</b>	<b>Topic Covered</b>	<b>Subj. Not covered with reason</b>	<b>No. of classes</b>
<b>001</b>	Introduction to Education, History, Foundations, Theories, Development of Education, Role of Education, Change in Education.	Introduction to Education, History, Foundations, Development of Education, Theories, Development of Education, Role of Education, Change in Education.	<b>07</b>
<b>002</b>	Education in India, History of Education in India, Foundations, Theories, Development, Progress of Education, Importance of Education in India.	Education in India, History of Education in India, Foundations, Theories, Development, Progress of Education, Importance of Education in India.	<b>07</b>
<b>003</b>	Education in Kerala, History of Education in Kerala, Foundations, Theories, Development, Progress of Education, Importance of Education in Kerala, Role of Education in Kerala.	Education in Kerala, History of Education in Kerala, Foundations, Theories, Development, Progress of Education, Importance of Education in Kerala, Role of Education in Kerala.	<b>07</b>





**SARAH ALBERTSON FOSTER**  
 10000 15th Avenue, Suite 100, Boulder, Colorado 80501  
 (303) 440-8888

**Learning Plan and Implementation Report (LPIIR)**

<b>Department:</b>		Boulder County Schools	
<b>Number of Students:</b>		100	
<b>Class / Section / Section ID:</b>		<b>Subject / Course / Program / Activity:</b> Project	<b>Subject Code / ID / Section ID:</b>
<b>No. of lessons / activities per week / month / term:</b>		<b>No. of lessons / activities / lessons / term:</b>	<b>No. of lessons / activities / lessons / term:</b>
<b>Month of Learning</b>	<b>Topic / Project</b>	<b>Topic / Project / Lesson / Activity</b>	<b>No. of Lessons</b>
Jan	Introduction to Science (General) and Introduction to the Scientific Method	Introduction to Science (General) and Introduction to the Scientific Method	10
Feb	States of Matter (Solid, Liquid, Gas) and Phase Changes	States of Matter (Solid, Liquid, Gas) and Phase Changes	10
Mar	States of Matter (Solid, Liquid, Gas) and Phase Changes	States of Matter (Solid, Liquid, Gas) and Phase Changes	10
Apr	States of Matter (Solid, Liquid, Gas) and Phase Changes	States of Matter (Solid, Liquid, Gas) and Phase Changes	10
May	States of Matter (Solid, Liquid, Gas) and Phase Changes	States of Matter (Solid, Liquid, Gas) and Phase Changes	10
Jun	States of Matter (Solid, Liquid, Gas) and Phase Changes	States of Matter (Solid, Liquid, Gas) and Phase Changes	10
<b>Signature of Teacher:</b> 		<b>Signature of Principal:</b> 	



**UNIVERSITY OF KENYA**  
**SCHOOL OF DISTANCE EDUCATION**  
**DEPARTMENT OF MANAGEMENT STUDIES**

**Final Project Report**

<b>Department:</b>		MBA - Finance & Banking	
<b>Name of student:</b>		M. S. Mwangi	
<b>Title of Project:</b>		Project Management - Theory	
<b>No. of business intelligence units (B):</b>		No. of business intelligence units (B):	
<b>Grade of work:</b>	<b>Final Project:</b>	<b>Final Project:</b>	<b>Final Project:</b>
<b>Pass</b>	<p>Project Management Theory: Theories &amp; Concepts                      Project Management and Risk Management                      Project Management Process: Project Management                      Project Management and Business Process Management                      Project Management and Business Process Management                      Project Management and Business Process Management                      Project Management and Business Process Management</p>	<p>All project topics reviewed</p>	<p>21</p>
<b>Fail</b>	<p>Project Management Theory: Theories &amp; Concepts                      Project Management and Risk Management                      Project Management Process: Project Management                      Project Management and Business Process Management                      Project Management and Business Process Management                      Project Management and Business Process Management</p>	<p>All project topics reviewed</p>	<p>21</p>
<b>Signature of student:</b>		<b>Signature of Subject Teacher:</b>	



**Training Cost Computer Release Statement (JULY 2004)**  
**U.S. AIR FORCE (AFMPC)**  
**SECRETARY**

Training Cost Computer Release Statement (AFMPC Form 100, 10/01/03) (Use only for AFMPC) (Do not use for other AFMPC activities)			
Reporting Period: _____			AFMPC Computer System: _____
Training Center: _____			AFMPC Release Number: _____
Class: _____		Budget: _____	Budget Code: _____
No. of Classes Offered per Week: _____		No. of Classes Offered per Semester: _____	No. of Classes Offered per Semester: _____
Month Ending	Description	Budgeted Amount (USD)	Actual Amount
(01)	(Description of Class)	(Budgeted Amount)	(Actual Amount)
(02)	(Description of Class)	(Budgeted Amount)	(Actual Amount)
(03)	(Description of Class)	(Budgeted Amount)	(Actual Amount)
Signature of Trainer: _____		Signature of Budget Officer: _____	



**UNIVERSITY OF CALicut**  
**INSTITUTE FOR AGRICULTURE, FISHERIES AND FORESTRY**  
**THE U. MANIPALAM CAMPUS, MANIPALAM, ERNACULAM DISTRICT**

**Learning Plan for the Academic Session 2023-24**

<b>Department</b>		<b>B.Sc. Computer Science</b>	
<b>Name of teacher</b>		<b>Dr. Mithila Ramesh</b>	
<b>Class / Section / Semester</b>		<b>Computer Applications - Practical</b>	<b>Self-paced / self-directed</b>
<b>No. of lessons / theoretical / practical</b>		<b>No. of lessons / practical per semester</b> 05	<b>No. of lessons / practical per semester</b> 05
Sl. No.	Topic / Content	Number of lessons / practical / self-paced	No. of lessons
1a	Introduction to Computers History of computers and their uses for processing Number, history and classification Applications, types	05 practical / self-paced / self-directed	05
1b	MS-Word / handling of files and folders Formatting and editing Printing / saving to Microsoft Word	05 practical / self-paced / self-directed	05
1c	Apply the 5-Step algorithm to generate basic graphics applications Illustrate the general number of characters using their standard software features Handling the changing number and style of the fonts characteristics	05 practical / self-paced / self-directed	05
1d	Microsoft PowerPoint - handling of files Creating MS-PPT in a standard or custom design Customize the content of slides and edit the appearance of slides and components Printing, Saving, the style of presentations etc.	05 practical / self-paced / self-directed	05
1e	MS-Excel - handling of files Introduction to spreadsheets - using data, mathematical and logical functions Formatting, printing, saving, creating and saving templates Handling the changing number and style of the fonts characteristics	05 practical / self-paced / self-directed	05
<b>Signature of Teacher</b> 		<b>Signature of Student</b> 	



**UNIVERSITY OF CALicut**  
**UNIVERSITY OF CALICUT UNIVERSITY OF DISTANCE EDUCATION**  
**UNIVERSITY OF DISTANCE EDUCATION**

**Working Paper and Communication Report 2022-23**

<b>Department</b>		<b>Dr. Vijaya Lakshmi</b>	
<b>Center/Office</b>		<b>Dr. Vijaya Lakshmi</b>	
<b>Class / Section / Program</b>		<b>Department of Social Computing and Web Services / B.Tech</b>	<b>Section / Code: 1001001</b>
<b>No. of Classes / Semesters</b>		<b>No. of Classes / Semesters</b>	<b>No. of Classes / Semesters</b>
Serial Number	Topic / Project	Topic / Project / Sub-Topic	No. of Classes
1	Introduction to Social Computing	Introduction to Social Computing	1
2	Web Services and Social Computing	Web Services and Social Computing	1
3	Cloud Computing and Social Computing	Cloud Computing and Social Computing	1
4	Mobile Computing and Social Computing	Mobile Computing and Social Computing	1
<b>Signature of Candidate</b>		<b>Signature of Supervisor</b>	



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**BERKELEY COLLEGE OF AGRICULTURE & MECHANICAL INDUSTRIES**  
**DEPARTMENT OF ENTOMOLOGY AND PLANT PATHOLOGY**

**Training Plan and Implementation Record (2020-21)**

<b>Department:</b>		<b>Field Station Name:</b>	
<b>Name of Faculty:</b>		<b>PI: Date of Entry:</b>	
<b>Class: 2 YRS. MS. Semester: 21</b>		<b>Subject: Food Engineering and Microbiology - Practical</b>	<b>Subject Code: 21013001</b>
<b>No. of Classes Offered per week: 01</b>		<b>No. of Classes Conducted Semester: 10</b>	<b>No. of Classes Offered per Semester: 01</b>
<b>Week of Meeting</b>	<b>Topic Proposed</b>	<b>Topic to be Conducted and reason</b>	<b>No. of Students</b>
<b>1st</b>	Introduction to food engineering and microbiology. Overview of food safety and quality management systems (FSMS) and HACCP. Introduction to food microbiology. Food preservation methods. Food packaging and distribution. Food safety and quality assurance (FSQA) systems. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation.	All proposed topics were covered.	100
<b>2nd</b>	Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation. Food safety and quality management system (FSQMS) implementation.	All proposed topics were covered.	10
<b>Signature of Faculty:</b> 		<b>Signature of PI:</b> 	



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF EDUCATION**  
**OFFICE OF THE ASSISTANT TO THE CHANCELLOR FOR EDUCATION**

**Faculty Pay and Supplemental Salary (2023-24)**

<b>Department</b>		<b>U.C. Campus Office</b>	
<b>Area of Study</b>		<b>Academic Division</b>	
<b>Class: 1 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)</b>		<b>College: Natural and Physical Sciences - Physics</b>	
<b>College: Natural and Physical Sciences - Physics</b>		<b>College Code: 170 0001</b>	
<b>No. of Salaries (Fixed per month)</b>		<b>No. of Salaries (Fixed per Semester)</b>	
<b>No. of Salaries (Fixed per month)</b>		<b>No. of Salaries (Fixed per Semester)</b>	
<b>Month of Fixing</b>	<b>App. Project</b>	<b>App. Cost (Fixed with excess)</b>	<b>No. of Salaries</b>
6/23	Investigation and Discovery of Quantum States (October 2023 - June 2024) Research: Graduate and Postdoc, Assistant and Staff/Physicist, Administrative Support/Staff/Physicist, Service Support, IT/Operating Maintenance, Safety/Security, Business Administration, Engineering/Staff and Support, etc. (Salary ranges for 2023, Service salaries as of 1/1/23, various ranges) Medical Support/Research/Physicist/Staff/Postdoc, Materials/Physicist of Material Science School Operating Support: Production of High Energy Beams, etc. (Service & Material Science Faculty) Transportation/Staff/Physicist of Material Science School, Energy Physics & Accelerators at SLAC Research Support and Services at UC Berkeley, Department of Physics, etc. (2023-24) Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24)	All proposed wages are covered	00
6/24	Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24) Research: Graduate and Postdoc, Assistant and Staff/Physicist, Administrative Support/Staff/Physicist, Service Support, IT/Operating Maintenance, Safety/Security, Business Administration, Engineering/Staff and Support, etc. (Salary ranges for 2023, Service salaries as of 1/1/23, various ranges) Medical Support/Research/Physicist/Staff/Postdoc, Materials/Physicist of Material Science School Operating Support: Production of High Energy Beams, etc. (Service & Material Science Faculty) Transportation/Staff/Physicist of Material Science School, Energy Physics & Accelerators at SLAC Research Support and Services at UC Berkeley, Department of Physics, etc. (2023-24) Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24)	All proposed wages are covered	00
6/25	Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24) Research: Graduate and Postdoc, Assistant and Staff/Physicist, Administrative Support/Staff/Physicist, Service Support, IT/Operating Maintenance, Safety/Security, Business Administration, Engineering/Staff and Support, etc. (Salary ranges for 2023, Service salaries as of 1/1/23, various ranges) Medical Support/Research/Physicist/Staff/Postdoc, Materials/Physicist of Material Science School Operating Support: Production of High Energy Beams, etc. (Service & Material Science Faculty) Transportation/Staff/Physicist of Material Science School, Energy Physics & Accelerators at SLAC Research Support and Services at UC Berkeley, Department of Physics, etc. (2023-24) Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24)	All proposed wages are covered	00
6/26	Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24) Research: Graduate and Postdoc, Assistant and Staff/Physicist, Administrative Support/Staff/Physicist, Service Support, IT/Operating Maintenance, Safety/Security, Business Administration, Engineering/Staff and Support, etc. (Salary ranges for 2023, Service salaries as of 1/1/23, various ranges) Medical Support/Research/Physicist/Staff/Postdoc, Materials/Physicist of Material Science School Operating Support: Production of High Energy Beams, etc. (Service & Material Science Faculty) Transportation/Staff/Physicist of Material Science School, Energy Physics & Accelerators at SLAC Research Support and Services at UC Berkeley, Department of Physics, etc. (2023-24) Material Science School/Department of Physics, University of California, Berkeley, etc. (2023-24)	All proposed wages are covered	00
<b>Signature of Applicant:</b> 		<b>Signature of Officer:</b> 	



**BOARD OF DIRECTORS**  
**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**OFFICE OF THE CHAIRMAN**

**Meeting Plan and Implementation Report (2017-18)**

<b>Department:</b>		<b>Dr. Robert E. Long</b>	
<b>Name:</b>		<b>Dr. Robert E. Long</b>	
<b>Class:</b> UC/UCR/UCSD/UCSB		<b>Report Period:</b> 10/1/17-9/30/18	<b>Budget Code:</b> 101140000
<b>No. of Meetings Planned per month (M)</b>	<b>No. of Meetings Planned per Semester (M)</b>	<b>No. of Meetings Planned per Semester (M)</b>	
<b>Meeting No.</b>	<b>Topic Proposed</b>	<b>Topic Final (actual topic name)</b>	<b>No. of Meetings</b>
001	Reviewing the Board's Report on the 2017-18 Meeting Plan, including the number of meetings and implementing the proposed changes to the meeting plan and the implementation of the proposed changes to the meeting plan.	All proposed topics were covered.	01
002	Reviewing the Board's Report on the 2017-18 Meeting Plan, including the number of meetings and implementing the proposed changes to the meeting plan and the implementation of the proposed changes to the meeting plan.	All proposed topics were covered.	01
003	Reviewing the Board's Report on the 2017-18 Meeting Plan, including the number of meetings and implementing the proposed changes to the meeting plan and the implementation of the proposed changes to the meeting plan.	All proposed topics were covered.	01
<b>Signature of Chair:</b> 		<b>Signature of Officer:</b> 	

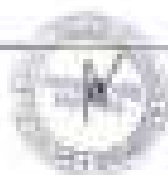




**UNIVERSITY OF CALicut**  
**UNIVERSITY COLLEGE OF EDUCATION, KANNUR**  
**DEPARTMENT OF EDUCATION**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		Edu. Technology Section	
<b>Name of teacher</b>		Mrs. Prathima P. Joseph	
<b>Class / Section / Semester</b>		<b>Medium / Language / Faculty</b>	<b>Subject / Code</b>
Class / Section / Semester: III		Medium / Language / Faculty: English	Subject / Code: ETE10104
<b>No. of lessons allotted per week</b>	<b>No. of lessons / periods per Semester</b>	<b>No. of lessons / periods per Semester</b>	
1	10	10	
<b>Sl. No.</b>	<b>Topic / Project</b>	<b>Topic / No. of periods / lessons / activities</b>	<b>No. of students</b>
1	English and Project Assessment	10 periods / lessons / activities	10
2	Review of the topics and the key writing skill and critical thinking skills. Formative Assessment and Self-reflection. APT Planning. Multi-learning with digital. Review of the key writing skill and critical thinking skills. Review of the key writing skill.	10 periods / lessons / activities	10
3	Review of the key writing skill. Review of the key writing skill. Review of the key writing skill.	10 periods / lessons / activities	10
4	Review of the key writing skill. Review of the key writing skill. Review of the key writing skill.	10 periods / lessons / activities	10
<b>Signature of teacher</b>		<b>Signature of Subject Teacher</b>	
			



**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**BERKELEY COLLEGE OF EDUCATION**  
**DEPARTMENT OF EDUCATION POLICY AND ADMINISTRATION**


**Leading Public and Nonprofit Organizations (LEAD)**

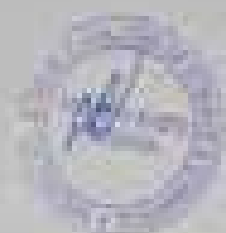
Department:		LEAD - Graduate Studies	
Name of Student:		[Redacted]	
Class: LEAD 501B Semester: [Redacted]		Subject: [Redacted]	Subject Code: [Redacted]
No. of Sections Attended per week: [Redacted]		No. of Sections Attended per Semester: [Redacted]	No. of Sections Attended per Semester: [Redacted]
Grade of Student	Topic (Project)	Topic (Project)	No. of Sections
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Signature of Student:		Signature of Subject Teacher:	



**UNIVERSITY PROJECT**  
**WISH, U.S. & THE NEW COURSE OF WORK, STUDIES & CONTRACT**  
**DR. S. Srinivasan (M.A., M.Sc., Ph.D., F.R.S., F.A.S.T., F.A.S.T.)**

**Working Plan and Implementation Report (2015-16)**

<b>Department:</b>		<b>Department Name(s):</b>	
<b>Name of Teacher:</b>		<b>Dr. S. Srinivasan</b>	
<b>Class: UG &amp; / Semester: III</b>			
<b>Subject: Programming Programs with C</b>			
<b>Subject Code: 15T101</b>			
<b>No. of hours allotted per week: 24</b>			
<b>No. of lectures Conducted per Semester: 28</b>			
<b>No. of hours Allotted per Semester: 672</b>			
<b>Month of Teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
<b>July</b>	Introduction	Introduction	107 lectures commenced from 10th July 15.
<b>August</b>	Structure program characteristics Type of operators I. Program flow Control flow Functions and Program Structure	Structure program characteristics Type of operators I. Program flow Control flow Functions and Program Structure	28
<b>September</b>	user defined and library functions Function parameters, Return values Recursive Interactions: Recursion Pointers, Arrays and Strings Formatted Output (printf) and Formatted Input (scanf), file input and Output, Error Handling, Caller and callee files	user defined and library functions Function parameters, Return values Recursive Interactions: Recursion Pointers, Arrays and Strings Formatted output (printf), formatted input (scanf) and formatted input (scanf), file input and Output, Error Handling, caller and callee, header files	4
<b>October</b>	Pointers and Arrays, Pointers and Addresses Pointer Arrays Structures File Management etc.	Pointers and Arrays, Pointers and Addresses Pointer Arrays Structures File Management etc.	13
<b>Signature of Coordinator:</b> 		<b>Signature of Subject Teacher:</b> _____	



**LAUREL COLLEGE TRUSTS**  
**INSTITUTION FOR ADVANCED COURSE OF ARTS, SCIENCE & COMMERCE**  
**Unit 1: Assessment and Learning Methods in Computer / AI/DS**



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		Information Technology	
<b>Name of Teacher</b>		Dr. Sushil Tripathi	
<b>Class / I &amp; II / III Semester / IV</b> <b>Subject: Programming Principles with C++ Practical</b> <b>Subject Code: I07171</b>			
<b>No. of Lectures Allocated per week/10 (20/25 lectures)</b> <b>No. of Lectures Covered per Semester: 62</b> <b>No. of Lectures Allocated per Semester: 62</b>			
Month of Teaching	Topic Proposed	Topic Covered	No. of Lectures and Hours
July	1. Flowchart a. Write an algorithm and draw flowchart for sum of odd numbers for given no. & even for odd no given 1 to 10 numbers, for sum of 1 to 5 numbers, to compute the addition of digits of a given number	1. Flowchart a. Write an algorithm and draw flowchart for sum of odd no. given no. & even for odd no. given 1 to 10 numbers, for sum of 1 to 5 numbers, to compute the addition of digits of a given number	4
August	2. Linear Data Programs a. Arrays b. Pattern Printing c. Selection	2. Linear Data Programs a. Arrays b. Pattern Printing c. Selection	14
September	3. Strings d. Pointers	3. Strings d. Pointers	12
October	4. File handling 5.12. Create a menu program on "Bank management system". The program should be menu driven.	4. File handling 5.12. Create a menu program on "Bank management system". The program should be menu driven. Revision	16
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



**MAHARAJA JAYASINGH TRUST'S  
SRIYATI, D.D. & DR. M.V. COLLEGE OF ARTS, MINEES & COMMERCE  
DR. L. ANANDASWAMI MARRI, ANDHRA P.R. STATE - 500 008**

**Teaching Plan and Implementation Report (2021-22)**

<b>Department</b>		Information Technology	
<b>Name of Teacher</b>		Mrs. Susha Dasgupta	
<b>Class &amp; No. of Semesters :</b> I <b>Subject:</b> DICT (1803), AND APPLICATIONS <b>Subject Code:</b> 180302			
<b>No. of lectures allotted per week :</b> 10 <b>No. of lectures Covered per Semester :</b> 33 <b>No. of lectures omitted per Semester :</b> 00			
Month of Teaching	Topic Proposed	Topic Covered	No. of lectures per topic
July	I Digital Systems and Binary numbers	I Digital Systems and Binary numbers with binary code	4
August	II Boolean algebra and Gate	Assignment based II Boolean algebra and Gate level minimization	10
September	III Combinational logic IV Sequential circuits	III Combinational logic IV Sequential circuits	II (Power blocks and logic gates) transfer for sequential circuits (not made)
October	V Applications	Assignment based V Applications	13
<b>Signature of Coordinator</b> 		<b>Signature of Subject Teacher</b> 	



**CLASS (MATERIAL) PRACTICE**



MPPH (U.S. & INDIA) DIVISION OF APPL. SCIENCE & COMMERCE  
DR. S. SATHANARAYANAN ROAD, JALANDHAR-11, INDIA-160 001

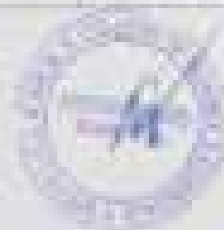
**Teaching Plan and Implementation Record (2020-21)**

<b>Department</b>	Information Technology
<b>Name of Teacher</b>	Mrs. Anita Sabharwal

Class: B.T. IT Semester: I  
**Subject: DIGITAL LOGIC AND APPLICATIONS PRACTICAL**  
**Subject Code: 20T220**



No. of Practicals Allowed per week: 04 (Four) hours  
 No. Of Practicals Covered per Semester: 30  
 No. Of Practicals Attended per Semester: 30

Weeks of Teaching	Topic Assigned	Topic Covered	No. of Practicals per topic
August	1. Study of basic gates and verify the truth tables. 2. Study of universal gates and verify the truth tables of NAND and NOR gates. 3. Study of other gates and verify the truth tables of XOR and X-NOR gates. 4. Implementation and verify NAND and NOR as Universal gates. 5. Verifying De Morgan's laws. 6. Implement the given expressions using a minimum number of gates using Boolean algebra. 7. Design and implement a combinational circuit for the given problem using minimization techniques using K-map. 8. Design and implement half adder.	1. Study of basic gates and verify the truth tables. 2. Study of universal gates and verify the truth tables of NAND and NOR gates. 3. Study of other gates and verify the truth tables of XOR and X-NOR gates. 4. Implementation and verify NAND and NOR as universal gates. 5. Verifying De Morgan's laws. 6. Implement the given expressions using a minimum number of gates using Boolean algebra. 7. Design and implement a combinational circuit for the given problem using minimization techniques using K-map. 8. Design and implement half adder.	10
September	9. Design and implement full adder. 10. Design and implement BCD decoder. 11. Design and implement BCD converter. 12. Study of Passive level triggered SR Flip-flop.	9. Design and implement full adder. 10. Design and implement BCD decoder. 11. Design and implement BCD converter. 12. Study of Passive level triggered SR Flip-flop.	10
October	Revision Practicals	Revision Practicals (same for each the teacher)	0
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



LAKSHMI CHANNESWAR TRUST'S  
DHETHILILU & SRINIVASA COLLEGE OF ARTS, SCIENCE & COMMERCIALS  
DR. S. RADHAKRISHNAN ROAD, ANAParthi, ELURU - 522204

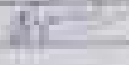

**Teaching Plan and Implementation Report (2023-24)**

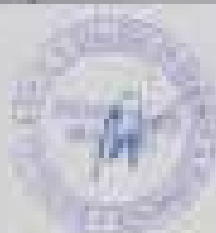
<b>Department</b>		E.L.L. Information Technology	
<b>Name of Teacher</b>		Kishor K. Jagtap	
<b>Class / U.G./ P.G. / IT / Semester / I</b> <b>Subject: Fundamentals of Database Management Systems</b> <b>Subject Code: IS77101</b>			
<b>No. of lectures allotted per week: 02</b> <b>No. of lectures covered per Semester: 03</b> <b>No. of lectures allotted per Semester: 03</b>			
Month of Teaching	Topic Proposed	Topic Covered	No. of lectures per topic
July	Database system concept and architecture. Introduction to SQL	Database system concept and architecture. Introduction to SQL	2
August	Complex queries, Relational model and Relational database concepts. Relational Algebra.	Complex queries, Relational model and Relational database concepts.	14 Relational algebra not covered due to urgent leave & health issues.
September	Relational normal form design and foreign dependencies, triggers, views, using database tables and schema modification. Query Processing and optimization. Transaction management and concurrency control and recovery.	Relational database design and foreign dependencies, triggers, views, using database tables and schema modification. Query Processing and optimization. Transaction management and concurrency control and recovery.	11
October	Conceptual modeling and database design. Database design: theory and implementation.	Conceptual modeling and database design. Database design: theory and implementation.	11
<b>Signature of Coordinator:</b> 		<b>Signature of Subject Teacher:</b> 	



**VAISHI VEDAVENKATESH TRUST'S**  
**SRM J. J. S. RAMA ENGINEERING COLLEGE & RESEARCH**  
**DR. S. RADAKRISHNAN ROAD, ANANDHI, MEENKONCHI - 600 089**

**Teaching Plan and Implementation Record (2023-24)**

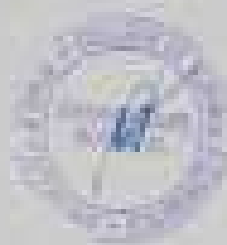
<b>Department</b>	B. Sc. Information Technology		
<b>Name of Teacher</b>	Ramesh S. Jayaram		
<b>Class / PG / B.Sc. / IT Semester / I</b> <b>Subject: Fundamentals of Database Management System, Practical</b> <b>Subject Code: 10T171</b>			
<b>No. of lectures allotted per week: 02</b> <b>No. of lectures Covered per Semester: 18</b> <b>No. of lectures allotted per Semester: 18</b>			
Month of Teaching	Topic Proposed	Topic Covered	No. of lectures per topic
July	1. Defining data a. Using CREATE statement b. Using ALTER statement	1. Defining data a. Using CREATE statement b. Using ALTER statement	2
August	1. Using DROP statement a. Using TRUNCATE statement a. using REVOKE statement 4. Manipulating data	1. Using DROP statement a. Using TRUNCATE statement a. Using REVOKE statement 4. Manipulating data	10
September	1. Creating and managing the tables 2. Retrieving and sorting data 3. Aggregate and Mathematical Functions 4. Views and joins	1. Creating and managing the tables 2. Retrieving and sorting data 3. Aggregate and Mathematical Functions 4. Views and joins	6
October	1. Database trigger 10. Index 1. Data C.B diagram and convert entities and relationships to relational table for a given scenario a. Bank b. College 2. Write relational algebra queries for a given set of relations.	1. Database trigger 10. Index 1. Data C.B diagram and convert entities and relationships to relational table for a given scenario a. Bank b. College 2. Write relational algebra queries for a given set of relations Revision	10
Signature of Coordinator: 		Signature of Subject Teacher: 	



LADYS (NORTH) TRUST'S  
 METALLURGY & MINING COLLEGE OF APPLIED SCIENCE & TECHNOLOGY  
 15, L. RAJAPPA STREET, MADRAS, ANDHRA PRADESH - 500 017



**Syllabus Plan and Implementation Record (2019-20)**

<b>Department</b>		S.T. IT	
<b>Name of Teacher</b>		Ms. Sunita Prasad	
Class: S.T. IT Semester-03			
Subject: Computational Logic and Discrete Structures			
Subject Code: 2801208			
No. of Semesters Allotted per week: 05			
No. of Seminars Covered per Semester: 08			
No. of Lectures Allotted per Semester: 60			
Month of Teaching	Topic Proposed	Topic Covered	No. of Lectures per Week
July	Set Theory	Set Theory	Lecture Introduction from 2801208-18 6
August	Relations Functions and Algorithms Probability	Relations Functions and Algorithms Probability	18
September	Techniques of Counting Advanced Counting Techniques, Permutation Graph Theory	Techniques of Counting Advanced Counting Techniques, Permutation Graph Theory	15
October	Directed Graphs Binary Trees Ordered Sets and Lattices	Directed Graphs Binary Trees Ordered Sets and Lattices	9
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



**SRM CHAMBER OF COMMERCE**  
**SRM K. J. SOMAIYASWAMY INSTITUTE OF ARTS, SCIENCE & COMMERCE**  
**DR. J. RAMAKRISHNAN ROAD, JAYARAM PET, CHENNAI - 600 099**

**Teaching Plan and Implementation Record (2024-25)**

<b>Department</b>	E.C.E		
<b>Name of Teacher</b>	Mr. Suresh Kumar		
<b>Class:</b> E.C.E - Semester II			
<b>Subject:</b> Computational Logic and Discrete Structures Practical			
<b>Subject Code:</b> CS17194			
<b>No. of Practical allotted per week (in both Semesters)</b>			
<b>No. of Practical Covered per Semester: 24</b>			
<b>No. of Practical achieved per Semester: 24</b>			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Practical per topic</b>
<b>August</b>	1. Set Theory 2. Functions and Algorithms	1. Set Theory 2. Functions and Algorithms	12
<b>September</b>	3. Probability Theory I 4. Counting I	3. Probability Theory I 4. Counting I	12
<b>Signature of Supervisor:</b> 	<b>Signature of Subject Teacher:</b> 		



LEADS / HERITAGE PROJECT

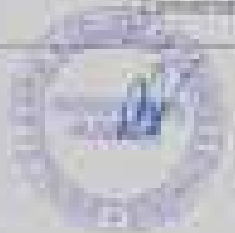
NORTH LUISIANA COLLEGE OF ARTS, SCIENCE & COMMERCIAL

DR. S. RAJESWARAN RAO, INCHARGE (LEADS) / SUPERVISOR / EST. 1967

Teaching Plan and Implementation Record (2022-23)



Department	E.C.C. IT		
Name of Teacher	Mr. Srinivas Chinnayyan		
Class & Sec. ID	Section ID	Subject	Technical Communication
Date	Subject Code: MMT120		
No. of lectures allotted per week (15)	No. of lectures covered per Semester (15)	No. of	
lectures allotted per Semester (15)			

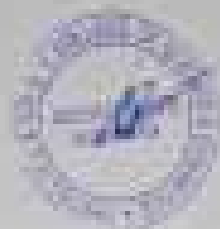
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
July	<p><b>Unit 1: Fundamentals of Technical Communication</b></p> <p>Introduction, The process of communication, Language as a tool of communication, Levels of communication, The Role of communication, Communication Networks, The importance of technical communication</p> <p>Barriers to communication</p> <p>Selection of media, Characteristics of Media</p> <p>Non-verbal Communication</p> <p>Introduction, Definition, the significance of non-verbal forms of non-verbal communication, Types of non-verbal communication</p>	<p><b>Unit 1: Fundamentals of Technical Communication</b></p> <p>Introduction, The process of communication, Language as a tool of communication, Levels of communication, The Role of communication, Communication Networks, The importance of technical communication</p> <p>Barriers to communication</p> <p>Selection of Media, Characteristics of Media</p> <p>Non-verbal communication</p> <p>Introduction, Definition, the significance of non-verbal forms of non-verbal communication, Types of non-verbal communication</p>	05
	<p><b>Unit 2: The Elements of Effective Communication: Conventions, Conventions, Conventions</b></p> <p>Conventions, Clarity, Clarity, Clarity, Clarity</p> <p>Conventions</p> <p>Introduction, Importance of Business Conventions, Elements of Business Conventions</p>	<p><b>Unit 2: The Elements of Effective Communication: Conventions, Conventions, Conventions</b></p> <p>Conventions, Clarity, Clarity, Clarity, Clarity</p> <p>Conventions</p> <p>Introduction, Importance of Business Conventions, Elements of Business Conventions</p>	02



<p><b>August</b></p>	<p><b>Communication Management</b></p> <p>Meeting and conferences</p> <p>Introduction, Purpose of meeting, planning a meeting, Meeting Facility, making effective</p> <p>meeting, Evaluating meeting, getting guidance, teleconferencing</p> <p>Group Discussion and team presentation</p> <p>Introduction: benefits of GD, structure of GD guidelines, Personnel and role</p> <p>Factors for success</p> <p>GD: Improving group performance, Assessment of group discussion, team presentation</p> <p>Oral communication</p> <p>Introduction: Advantages of oral, problems in oral communication, Oral messages</p> <p>Techniques of writing (Effective Oral)</p> <p>Unit 3: Audio-visual presentation</p> <p>Types of listening, Facts of good listening</p> <p>Active vs. Passive listening, Introduction of effective listening</p> <p>Effective presentation strategies</p> <p>Introduction, Defining purpose, knowing audience and topic, Organizing content, presenting content, Visual Aids, understanding, Summary of delivery, Effectiveness evaluation, objectives, types of exercises for individual</p>	<p>Meeting and conferences</p> <p>Introduction, Purpose of meeting, planning a meeting, Meeting Facility, making effective</p> <p>meeting, Evaluating meeting, getting guidance, teleconferencing</p> <p>Group Discussion and team presentation</p> <p>Introduction, Benefits of GD, structure of GD guidelines, Personnel and role, factors for success</p> <p>GD: Improving group performance, Assessment of group discussion, team presentation</p> <p>Oral communication</p> <p>Introduction: Advantages of oral, problems in oral communication, Oral messages</p> <p>Techniques of writing (Effective Oral)</p> <p>Unit 3: Audio-visual presentation</p> <p>Types of listening, Facts of good listening, Active vs. Passive listening, Introduction of effective listening</p> <p>Effective presentation strategies</p> <p>Introduction, Defining purpose, knowing audience and topic, Organizing content, presenting content, Visual Aids, understanding, Summary of delivery, Effectiveness evaluation, objectives, types of exercises for individual</p>	<p>24</p>
<p><b>September</b></p>	<p>Unit 4: Business writing &amp; presentation</p> <p>Importance of written business, Five main strategies of writing business messages</p> <p>Communication 101</p> <p>Business correspondence</p> <p>Business letter writing, essential components of business letter, Strategies for writing body of a letter, Types of business letter, writing business reports and proposal</p>	<p>Unit 4: Business writing, introduction, importance of written business, Five main strategies of writing business messages</p> <p>Communication 101</p> <p>Business correspondence</p> <p>Business letter writing, essential components of business letter, Strategies for writing body of a letter, Types of business letter, writing business reports and proposal</p>	<p>25</p>
<p><b>October</b></p>	<p>Unit 5: report/ Essay in writing routine</p> <p>Business report, parts of report, corporate reports and business proposals, Careers and future</p>	<p>Unit 5: report/ Essay in writing routine</p> <p>Business report, parts of report, corporate reports and business proposals, Careers and future</p>	<p>27</p>



	<p>Introduction to human building, various forms, traditional, modern and other theories, including systems, history of letters and online recruitment process.</p> <p>Unit 8: Communication across Functions and Personal Communication: With stress in Business Communication/Ethical communication.</p>	<p>Various forms, traditional, modern and other theories, including systems, history of letters and online recruitment process.</p> <p>Unit 8: Communication across Functions and Personal Communication: With stress in Business Communication/Ethical communication.</p>	
<b>Weekend</b>	<p>Issues, ethics and communication, ethical dimensions facing managers, strategic approaches to corporate ethics. Creating and using visual aids: Object, Model, Handouts, Charts and Graphs, Real Visuals, Formatting Computer-generated charts, graphs and visuals.</p>	<p>Issues, ethics and communication, ethical dimensions facing managers, strategic approaches to corporate ethics. Creating and using visual aids: Object, Model, Handouts, Charts and Graphs, Real Visuals, Formatting Computer-generated charts, graphs and visuals.</p>	<b>02</b>
<p>Signature of Lecturer:</p> 		<p>Signature of Student Number:</p> 	



**LEARN, EVALUATE, TRANSFER**

**SRM JEEVA COLLEGE OF ENGINEERING, TECHNOLOGY & MANAGEMENT**



**Dr. S. Srinivasan** (M.Sc., M.Phil., Ph.D., IAS, IACS) – 401204

**Teaching Plan and Implementation Report (2023-24)**

<b>Department</b>	EECS-IT
<b>Name of Teacher</b>	Dr. Srinivas Srinivasan
<b>Class &amp; Sec of Semester</b>	<b>Level:</b> National Level/University Level
<b>Practical</b>	<b>Subject Code:</b> EECS104
<b>No. of Pracs. Allotted per week: 05 (20th Session)</b>	<b>No. of Pracs. Covered per Semester: 40</b>
<b>Practical Allotted per Semester: 40</b>	<b>No. of</b>

<b>Month of Teaching</b>	<b>Topic Planned</b>	<b>Topic Covered</b>	<b>No. of Pracs. per week</b>
<b>July</b>	<ol style="list-style-type: none"> <li>Use of word processing tools for communication.</li> <li>Use of various tools for word creation, format, format etc.</li> <li>Make formal and informal letters, creating resume</li> </ol>	<ol style="list-style-type: none"> <li>Use of word processing tools for communication.</li> <li>Use of various tools for word creation, format, format etc.</li> <li>Make formal and informal letters, creating resume</li> </ol>	10
<b>August</b>	<ol style="list-style-type: none"> <li>Designing structures and types using templates in word</li> <li>Writing reports, minutes of meeting, action plan</li> <li>Use of spreadsheet for data representation and data analysis</li> <li>Basic use of word &amp; analysis using word</li> <li>Visual representation of data using word – pie chart, bar chart, bar chart etc.</li> <li>Summarization of data using of word tables and chart in word</li> </ol>	<ol style="list-style-type: none"> <li>Designing structures and types using templates in word</li> <li>Writing reports, minutes of meeting, action plan</li> <li>Use of spreadsheet for data representation and data analysis</li> <li>Basic use of word &amp; analysis using word</li> <li>Visual representation of data using word – pie chart, bar chart, bar chart etc.</li> <li>Summarization of data using of word tables and chart in word</li> </ol>	10
<b>September</b>	<ol style="list-style-type: none"> <li>Summarization of data using of word tables and chart in word</li> <li>Use of presentation tools like PowerPoint for communication and presentation in ms</li> </ol>	<ol style="list-style-type: none"> <li>Summarization of data using of word tables and chart in word</li> <li>Use of presentation tools like PowerPoint for communication and presentation in ms</li> </ol>	10





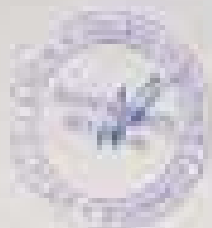
October	<p>8.1. Basic telecommunication covering the following topics - Drawing sheets, Binding Questions and Design of questionnaires</p> <p>8.2. Using software in online mode of communication using Zoom / Google Meet / MS Teams etc</p> <p>8.3. Use of Mail software for writing effective mails</p> <p>8.4. Use of Mail merge and its Networks</p> <p>8.5. Creating profile using threads</p>	<p>8.1. Basic communication covering the following topics - Drawing sheets, Binding Questions and Design of questionnaires</p> <p>8.2. Using software in online mode of communication using Zoom / Google Meet / MS Teams etc</p> <p>8.3. Use of Mail software for writing effective mails</p> <p>8.4. Use of Mail merge and its Networks</p> <p>8.5. Creating profile using threads</p>	20
Signature of Coordinator 	Signature of Subject Teacher 		



**SRMIST (Autonomous Institute)**  
**SRMIST VELLORE & SRMIST DEEPTI COLLEGES OF ARTS, SCIENCE & COMMERCE**  
**DE. S. ANNAKOTTAI ROAD, ANNAKOTTAI, CHENNAI - 600022**


**Teaching Plan and Implementation Record (2022-23)**

<b>Department:</b>		E.S.T.	
<b>Name of Teacher:</b>		Mr. Suresh Kumar	
<b>Class:</b> IT B.Sc. II Semester (II)			
<b>Subject:</b> Cloud Oriented Programming with Java			
<b>Subject Code:</b> IT21022			
<b>No. of Seminars/AA/Mini per week:</b> 01			
<b>No. of Lectures Covered per Semester:</b> 40			
<b>No. of Lectures Allocated per Semester:</b> 40			
<b>Month of Teaching</b>	<b>Topic Allocated</b>	<b>Topic Covered</b>	<b>No. of Lectures per topic</b>
December	i. Cloud Oriented Architecture	i. Cloud Oriented Architecture	06-07 lectures (commencing from 12th December 2022)
January	ii. Principles of OOPs ii. Classes and Objects iii. Constants and Variables	ii. Principles of OOPs ii. Classes and Objects iii. Constants and Variables	10
February	iv. Polymorphism v. Virtual Functions	iv. Polymorphism v. Virtual Functions	10
March	vi. Program development using inheritance vii. Exception Handling viii. Templates ix. Working with Files	vi. Program development using inheritance vii. Exception Handling viii. Templates ix. Working with Files	14
<b>Signature of Coordinator:</b> 		<b>Signature of Subject Teacher:</b> 	



**(Self Learning Text)**  
**DATA LAY & ANALY COURSE OF APT, SCIENCE & COMMERCE**  
**PH. U. KACHHAPUR ROAD, ANKUR, MUMBAI - 400 099**

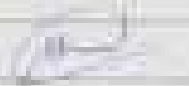

**Teaching Plan and Implementation Record (2021-22)**

<b>Department:</b>		E-IT	
<b>Name of Teacher:</b>		Dr. Sandeep Gupta	
<b>Class, R. &amp; S. No. (1)</b> : semester-II			
<b>Subject</b> : Object Oriented Programming Practice			
<b>Subject Code</b> : 18P104			
<b>No. of Practice Allowed per week</b> : 1			
<b>No. of Practice Covered per Semester</b> : 12			
<b>No. of Practice Allowed per Semester</b> : 12			
Month of Teaching	Topic Covered	Topic Covered	No. of Practice per week
January	1. Classes and methods 2. Using Friend Functions	1. Classes and methods 2. Using Friend Functions	11
February	3. Constructors and method overloading 4. Operator Overloading 5. Inheritance 6. Virtual Functions and virtual base class 7. String Handling	3. Constructors and method overloading 4. Operator Overloading 5. Inheritance 6. Virtual Functions and virtual base class 7. String Handling	12
March	8. Exception Handling 9. File Handling 10. Templates	8. Exception Handling 9. File Handling 10. Templates	6
<b>Signature of Coordinator:</b> 		<b>Signature of Subject Teacher:</b> 	



**UNIVERSITY OF JERUSALEM**  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF INFORMATION SYSTEMS**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department:</b>		E.C. Information Systems	
<b>Name of Teacher:</b>		Mrs. Ina'a Qudus	
<b>Class:</b> IT 211 - Semester: 22			
<b>Subject:</b> Fundamentals of Programming and Microstructures			
<b>Subject Code:</b> 101102			
<b>No. of lectures allocated per week:</b> 03			
<b>No. of lectures covered per semester:</b> 42			
<b>No. of lectures allocated per Semester:</b> 42			
<b>Month of Teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of lectures per topic</b>
December	Microprocessor Architecture and Assembly Language Microprocessor Architecture and Microassembly Cache RISC Microprocessor Architecture and Microassembly	Microprocessor Architecture and Assembly Language Microprocessor Architecture and Microassembly Cache RISC Microprocessor Architecture and Microassembly	1
January	1. Introduction of C++ language Introduction to RISC Assembly Language Programming Introduction to RISC Architecture 4 Programming Software With Additional Instructions	1. Introduction of C++ language Introduction to RISC Assembly Language Programming Introduction to RISC Architecture 4 Programming Software With Additional Instructions	17
February	Cache and Time Delay: static and dynamic instructions. 2 More C++ cases	Cache and Time Delay: static and dynamic instructions. 2 More C++ cases	12
March	Embedded hardware Registers The RISC microprocessor RISC Programming in C C Programming Embedded System and Data Structures Programming embedded systems (Design and Development)	Embedded hardware Registers The RISC microprocessor RISC Programming in C C Programming Embedded System and RISC Microprocessor Programming embedded systems Design and Development	14
<b>Signature of Coordinator:</b> 		<b>Signature of Subject Teacher:</b> 	



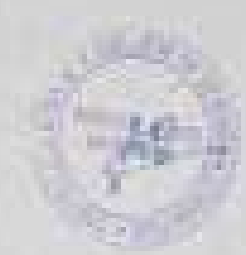
DARSH CHARTERED TRUSTS  
DARSH I.I.T. & D.P. M.S. COLLEGE (OF ARTS, SCIENCE & COMMERCE)  
D-1 & ANANDKUMAR ROAD, ANAND (G), GUJARAT - 387001

**Teaching Plan and Implementation Record (2022-23)**

Department	I.I.T.
Name of teacher	Mrs. Jyoti Desai
Class / I / II / III / IV / Semester	II
Subject: Fundamentals of Microprocessors and Microcontrollers Practical (Subject Code: UBT22P)	
No. of Practicals Allowed per week (10 / Per Sem)	
No. of Practicals Covered per Semester: 18	
No. of Practicals Allowed per Semester: 18	

Month of Teaching	Topic Proposed	Topic Covered	No. of Practicals per month
January	1. Perform the following Operations related to memory locations. 2. Simple assembly language program. 3. Storing and retrieving operations. 4. Register Operations.	1. Perform the following Operations related to memory locations. 2. Simple assembly language program. 3. Storing and retrieving operations. 4. Register Operations.	10
February	5. Multiple memory locations. 6. Operations with respect to memory locations. 7. Assembly program on memory location.	5. Multiple memory locations. 6. Operations with respect to memory locations. 7. Assembly program on memory location.	10
March	Practical no. 8 & 10 using CodeMandrill	Practical no. 8 & 10 using CodeMandrill	8

Signature of Coordinator:	Signature of Subject Teacher:
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**Level Certificate (BTEC)**  
**WALTHAM & GRAMM COLLEGE OF ARTS, SCIENCE & TECHNOLOGY**  
**Unit 5: Introduction to Web Development (Certificate)**

**Teaching Plan and Implementation Record (2022-23)**

<b>Department</b>		ICT	
<b>Name of Teacher</b>		Mr. Anand Choudhary	
<b>Class: IT &amp; ICT Semester: 02</b> <b>Subject: Web Application Development</b> <b>Subject Code: I07203</b>			
<b>No. of Lectures Planned per week: 02</b> <b>No. of Lectures Covered per Semester: 02</b> <b>No. of Lectures Delivered per Semester: 02</b>			
<b>Month of Teaching</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Practical per Topic</b>
December	Introduction and the World Wide Web	Introduction and the World Wide Web	02
January	HTML 5 1. HTML5 Page layout and navigation HTML5 Tables, Forms and Media	HTML 5 1. HTML5 Page layout and navigation HTML5 Tables, Forms and Media	10
February	2. CSS Writing Selectors Statements Color (colorful Properties and Methods of CSS) Font and Font associated styles	2. CSS Writing Selectors Statements Color (colorful Properties and Methods of CSS) Font and Font associated styles	10
March	Forms and Email Handling 3. PHP 3 Advanced PHP and MySQL	Forms and Email Handling 3. PHP 3 Advanced PHP and MySQL	02
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



**LOUISIANA PARISHS TRUST**  
**OFFICE OF THE SUPERVISOR OF POST-SECONDARY EDUCATION & COMMERCE**  
**DR. E. BOCHER (SUPERVISOR), DR. J. M. MATHIS (DEPUTY)**

**Testing Plan and Implementation Record (2023-24)**

<b>Department</b>		E.S. 17	
<b>Name of Teacher</b>		Mr. Martin Chesapeake	
<b>Class: E.S. 17 - Semester: 00</b>			
<b>Subject: Auto Application Development Practical</b>			
<b>Subject Code: 061221</b>			
<b>No. of Practical offered per week: 02</b>			
<b>No. of Practical Covered per Semester: 00</b>			
<b>No. of Practical Skipped per Semester: 00</b>			
<b>Week of Testing</b>	<b>Topic Proposed</b>	<b>Topic Covered</b>	<b>No. of Practical per Term</b>
January	1. Use of Basic Type 2. String, float, double, boolean and char 3. Java String 4. Control and looping statements and use for loop references.	1. Use of Basic Type 2. String, float, double, boolean and char 3. Java String 4. Control and looping statements and use for loop references.	00
February	5. Basic PNF 1 6. Basic PNF 2 7. String Function and array	5. Basic PNF 1 6. Basic PNF 2 7. String Function and array.	00
March	8. PNF and Decision	8. PNF and Decision	00
<b>Signature of Coordinator</b> 		<b>Signature of Subject Teacher</b> 	



Laxmi Narayan Tripathi  
 DEPT. OF MATHS & PHYSICS COLLEGE FOR WOMEN, ICARDA & COMPLEX  
 DR. B. K. BHARGAVA ROAD, VARDHOLA (S. MUMBAI) - 401 007

**Teaching Plan and Implementation Record (2023-24)**


**Department:** B.Sc. Information Technology


**Name of Teacher:** Anurag K. Jagtap

**Class:** B.Sc. II Semester - B  
**Subject:** Numerical Methods  
**Subject Code:** LM2204

**No. of lectures allocated per week:** 03  
**No. of lectures covered per Semester:** 12  
**No. of lectures allocated per Semester:** 12

Month of Teaching	Topic Proposed	Topic Covered	No. of Lectures
December	Mathematical Modeling and Engineering Problem Solving Recursion Series and the Taylor Series Solutions of Algebraic and Transcendental Equations.	Mathematical Modeling and Engineering Problem Solving, Taylor Series and the Taylor Series Solutions of Algebraic and Transcendental Equations.	6
January	Interpolation Solutions of simultaneous algebraic equations (linear) using Jacobi method. Numerical solution of 1st and 2nd order differential equations.	Interpolation Solutions of simultaneous algebraic equations (linear) using Jacobi method Numerical solution of 1st and 2nd order differential equations	06
February	Least Squares Regression Linear Programming.	Least Squares Regression Linear Programming	02
March	Numerical solution of Partial Differential Equations	Numerical solution of Partial Differential Equations	1



Signature of Coordinator: 

Signature of Subject Teacher: 



UNION CHRISTIAN COLLEGE  
 19774 L.S. & M. BLVD. (2013) OF ARTS, SCIENCE & COMMERCE  
 15, S. BROADWAY (HARRIS MAP), SCARVILLE, ALABAMA - 36507

**Working Plan and Syllabus/Practical Record (2022-23)**

<b>Department</b>	E.E. Information Technology		
<b>Name of Teacher</b>	Subhrajit Dasgupta		
Class: B.E. in IT Semester: 3 Subject: Numerical and Statistical Methods Practical Subject Code: IIT214			
No. of Practical allotted per week: 04 No. of Practical Covered per Semester: 28 No. of Practical Allotted per Semester: 28			
Month of teaching	Topics Proposed	Topics Covered	No. of Practical per Topic
January	1. Solution of algebraic and transcendental equations 2. Interpolation	1. Solution of algebraic and transcendental equations 2. Interpolation	02
February	3. Solving linear system of equations by Gaussian method. 4. Numerical integration 5. Solution of differential equations 6. Numerical solution of partial differential equations	3. Solving linear system of equations by Gaussian method 4. Numerical integration 5. Solution of differential equations 6. Numerical solution of partial differential equations	08
March	Revision	Revision	2
<b>Signature of Coordinator</b>			<b>Signature of Subject Teacher</b>
			



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**UNIVERSITY OF CALIFORNIA, BERKELEY**  
**DEPARTMENT OF EDUCATION, EARLY CHILDHOOD EDUCATION**

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		ECE 01	
<b>Name of Teacher</b>		Ms. Sarah Smith	
Class: ECE 01 (1) Semester: 01			
Subject: Green IT			
Subject Code: 01234			
No. of lectures allotted per week: 04			
No. of lectures Covered per Semester: 16			
No. of lectures Allotted per Semester: 16			
Week of Teaching	Topic Proposed	Topic Covered	No. of lectures per week
December	1. Overview and Goals Introduction and Fundamentals	1. Overview and Goals Introduction and Fundamentals	4
January	2. Identifying Green Design Goals 3. Changing the Way of Work	2. Identifying Green Design Goals 3. Changing the Way of Work	8
February	4. Green Reporting 5. Reporting	4. Green Reporting 5. Reporting	8
March	6. Green Reporting 7. Green Reporting 8. Green Reporting	6. Green Reporting 7. Green Reporting 8. Green Reporting	12
<b>Signature of Coordinator</b>		<b>Signature of Subject Teacher</b>	



SARV CHAITHAN TRUST'S  
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SR. S. RAMANATHAN ROAD, ANAPARTI P. O., MADRAS - 600 084

**Teaching Plan and Implementation Record (2013-14)**

<b>Department</b>		B. Sc. IT	
<b>Name of Teacher</b>		Ms. Manoj Kumar	
Class: V B Sc. IT Semester III Subject: PL/MS; Practical Subject Code: UBT2175			
No. of Practical allotted per week: 1 No. of Practical Covered per Semester: 16 No. of Practicals Allotted per Semester: 16			
Month of teaching	Topic Proposed	Topic Covered	No. of Practicals per topic
December	PL/MS: Linear Conditional Statements in PL/MS Functional Statements using string Creation of sequence	PL/MS: Linear Conditional Statements in PL/MS Functional statements using string Creation of sequence	16
March	Linear search in array Creation of Fibonacci in array Functions in array Creation of Page Handling Exceptions	Linear search in array Creation of Fibonacci in array Functions in array Creation of Page Handling Exceptions	16
Signature of Coordinator: _____		Signature of Subject Teacher: _____	



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DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 060

**Teaching Plan and Implementation Record (2023-24)**

Department:	Information Technology
Name of teacher:	Ms. Sneha Gokarnkar
Class: S.T. B.Sc.IT Semester - III	
Subject: Python Programming	
Subject Code: IUTR01	
No. of lectures Allotted per week: 05	
No. of lectures Covered per Semester: 52	
No. of lectures Allotted per Semester: 60	

Month of Teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	I. Introduction Variables and Expressions Conditional Statements Control statements	I. Introduction Variables and Expressions Conditional Statements Control statements	11 (College reopens on 14th June) 23
July	II. Functions Strings III. List Tuples and Dictionaries Files Exceptions	II. Functions Strings III. List, Tuples and Dictionaries Files Exceptions (Assignment-1 Given) Test -1 Taken	15 (Had taken leave on last week so few lectures were conducted Exception in topic covered next month)
August	IV. Regular Expressions Classes and Objects Multithreaded Programming	IV. Regular Expressions Classes and Objects Multithreaded Programming (Assignment-2 Given) Test-2 Taken	12 (Less Lectures taken due to holiday on Independence Day and Purni Purni Year)
September	V. Creating the GUI Form and Adding Widgets Layout Management Look and Feel Customization Storing Data in Our MySQL Database via Our GUI	V. Creating the GUI Form and Adding Widgets Layout Management (Syllabus Done Students presented their projects) Look and Feel Customization Storing Data in Our MySQL Database via Our GUI	12

Signature of Coordinator:

Signature of Subject Teacher:



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 DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 069

**Teaching Plan and Implementation Record (2023-24)**



Department: Information Technology  
 Name of teacher: Mrs. Sneha Gokarnkar

Class: S. Y. B.Sc. IT Semester - III  
 Subject: Python Programming Practical  
 Subject Code: USIT3P2

No. of practicals Allotted per week: 04 (Both Batches)  
 No. of practicals Covered per Semester: 30  
 No. of practicals Allotted per Semester: 40

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	1. Write the program for the following:	1. Write the program for the following:	2
July	2. Write the program for the following: 2a. A pangram is a sentence that contains all the letters of the English alphabet at least once. b. Take a list, say for example this one: $a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]$ and write a program that prints out all the elements of the list that are less than 5. 4a. Write a program that takes two lists and returns True if they have at least one common member. b. Write a Python program to print a specified list after removing the 0th, 2nd, 4th, and 5th elements. c. Write a Python program to clone or copy a list. 5a. Write a Python script to sort (ascending and descending) a dictionary by value. b. Write a Python script to concatenate the following dictionaries to create a new one. c. Write a Python program to sum up all the items in a dictionary.	2. Write the program for the following: 2a. A pangram is a sentence that contains all the letters of the English alphabet at least once. b. Take a list, say for example this one: $a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]$ and write a program that prints out all the elements of the list that are less than 5. 4a. Write a program that takes two lists and returns True if they have at least one common member. b. Write a Python program to print a specified list after removing the 0th, 2nd, 4th, and 5th elements. c. Write a Python program to clone or copy a list. 5a. Write a Python script to sort (ascending and descending) a dictionary by value. b. Write a Python script to concatenate the following dictionaries to create a new one. c. Write a Python program to sum up all the items in a dictionary.	10
August	6a. Write a Python program to read an entire text file.	6a.	24



<p>b. Write a Python program to append text to a file and display the text.</p> <p>c. Write a Python program to read the last n lines of a file.</p> <p>7a.</p> <p>Design a class that stores the information of students and displays the same.</p> <p>b. Implement the concept of inheritance using Python.</p> <p>c. Create a class called Numbers, which has a single class attribute called MULTIPLIER, and a constructor which takes the parameters x and y (these should all be numbers).</p> <p>i. Write a method called add which returns the sum of the attributes x and y.</p> <p>ii. Write a class method called multiply, which takes a single number parameter a and returns the product of a and MULTIPLIER.</p> <p>8a. Open a new file in IDLE ("New Window" in the "File" menu) and save it as geometry.py in the directory where you keep the files you create for this course. Then copy the functions you wrote for calculating volumes and areas in the "Control Flow and Functions" exercise into this file and save it. Now open a new file and save it in the same directory.</p> <p>b. Write a program to implement exception handling.</p> <p>9a. Write the program for the following: a. Try to configure the widget with various options like bg="red", family="times". b. Try to change the widget type and configuration options to experiment with other widget types like Message, Button, Entry, Checkbutton, Radiobutton, Scale etc.</p>	<p>Write a Python program to read an entire text file.</p> <p>b. Write a Python program to append text to a file and display the text.</p> <p>c. Write a Python program to read the last n lines of a file.</p> <p>7a.</p> <p>Design a class that stores the information of students and displays the same.</p> <p>b. Implement the concept of inheritance using Python.</p> <p>c. Create a class called Numbers, which has a single class attribute called MULTIPLIER, and a constructor which takes the parameters x and y (these should all be numbers).</p> <p>i. Write a method called add which returns the sum of the attributes x and y.</p> <p>ii. Write a class method called multiply, which takes a single number parameter a and returns the product of a and MULTIPLIER.</p> <p>8a. Open a new file in IDLE ("New Window" in the "File" menu) and save it as geometry.py in the directory where you keep the files you create for this course. Then copy the functions you wrote for calculating volumes and areas in the "Control Flow and Functions" exercise into this file and save it. Now open a new file and save it in the same directory.</p> <p>b. Write a program to implement exception handling.</p> <p>9a. Write the program for the following: a. Try to configure the widget with various options like bg="red", family="times". b. Try to change the widget type and configuration options to experiment with other widget types like Message, Button, Entry, Checkbutton, Radiobutton, Scale etc.</p>
<p>September 10. Design a database application</p>	<p>10. Design a database application</p>
<p>Signature of Coordinator : </p>	<p>Signature of Subject Teacher : </p>





LAXMI CHARITABLE TRUST'S  
 SHETH L.U.J. & SRI M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 069

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of teacher</b>	Ms. Meena Ghewarghor
<b>Class:</b> B.Sc./IT Semester - III	
<b>Subject:</b> Data Structures Practical	
<b>Subject Code:</b> USIT3P2	
<b>No. of practicals Allotted per week:</b> 04 (Both Batches)	
<b>No. of practicals Covered per Semester:</b> 18	
<b>No. of practicals Allotted per Semester:</b> 40	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	1. Implement the Arrays & Matrix operations	1. Implement the Arrays & Matrix operations	4
July	2. Implement Single Linked List & Double Linked List 3. Implement Stack & its operations.	2. Implement Single Linked List & Double Linked List 3. Implement Stack & its operations.	6
August	4. Implement Queue & Deque 5. Implement the bubble sort, selection sort & insertion sort. 6. Implement data structure techniques.	4. Implement Queue & Deque 5. Implement the bubble sort, selection sort & insertion sort. 6. Implement data structure techniques.	6
September	7. Implement the following data structure techniques for trees.	7. Implement the following data structure techniques for trees.	2

Signature of Coordinator: \_\_\_\_\_

Signature of Subject Teacher: \_\_\_\_\_



**Teaching Plan and Implementation Record (2023-24)**

Department: Information Technology  
 Name of teacher: Mr. Sumit Tripathi  
 Class: S. T. B.Sc. IT Semester - III      Subject: Computer Networks      Subject Code: UMT303

No. of lectures Allotted per week: 05  
 No. of lectures Covered per Semester: 13  
 No. of lectures Allotted per Semester: 60

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	I. Introduction Network Models Introduction to Physical layer Digital and Analog transmission	I. Introduction Network Models Introduction to Physical layer Digital and Analog transmission	10
July	II. Bandwidth Utilization: Multiplexing and Spectrum Spreading Transmission media Switching Introduction to the Data Link Layer III Data Link Control	II. Bandwidth Utilization: Multiplexing and Spectrum Spreading Transmission media Switching Introduction to the Data Link Layer III Data Link Control	20
August	Media Access Control Wireless LANs Connecting devices and Virtual LANs. IV. Introduction to Network Layer Unicast Routing Next generation IP	Media Access Control Wireless LANs Connecting devices and Virtual LANs. IV. Introduction to Network Layer Unicast Routing Next generation IP	20
September	V. Introduction to the Transport Layer: Standard ClientServer Protocols	V. Introduction to the Transport Layer: Standard ClientServer Protocols	13

Signature of Coordinator : 

Signature of Subject Teacher : 



**Teaching Plan and Implementation Record (2023-2024)**

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Department	Information Technology		
Name of teacher	Mrs. Rohini V. Jagdale		
Class: S.Y. B.Sc. IT Semester - III	Subject: Computer Networks Practical	Subject Code: USIT3P1	

No. of practicals Allotted per week: 04 (Both batches)  
 No. of practicals Covered per semester: 34  
 No. of practicals Allotted per Semester: 40

Month of teaching	Topic Proposed	Topic Covered	No. Of lecture s
July	1. IPv4 Addressing and Subnetting b) With an IP address and network mask, determine other information about the IP address. 2. Use of ping and tracer / traceroute, ipconfig / ifconfig, route and arp utilities. 3. Configure IP static routing. 4. Configure IP routing using RIP. 5. Configuring Simple OSPF	1. IPv4 Addressing and Subnetting b) With an IP address and network mask, determine other information about the IP address. 2. Use of ping and tracer / traceroute, ipconfig / ifconfig, route and arp utilities. 3. Configure IP static routing. 4. Configure IP routing using RIP. 5. Configuring Simple OSPF.	16
August	6. Configuring DHCP server and client. 7. Configuring DNS Server and client. 8. Configuring OSPF with multiple areas.	6. Configuring DHCP server and client. 7. Configuring DNS Server and client. 8. Configuring OSPF with multiple areas.	8
September	9. Configure Telnet & HTTP. 10. Configure FTP. 11. Configure basic security	9. Configure Telnet & HTTP. 10. Configure FTP. 11. Configure basic security. Revision of all practicals	10

Signature of Coordinator:	Signature of Subject Teacher:
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 DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 059

**Teaching Plan and Implementation Record (2023-24)**

Department:	Information Technology		
Name of teacher:	Mrs. Aparna Panghaly		
Class: S.Y. B.Sc. IT Semester-II	Subject: Operating Systems	Subject Code: UST204	

No. of lectures Allotted per week: 04  
 No. of lectures Covered per Semester : 24  
 No. of lectures Allotted per Semester: 45

Month of teaching	Topic Proposed	Topic Covered	No. of lectures
July	Operating System Overview	Operating System Overview	4
August	OS design considerations for multiprocessor and multicon, overview of different operating systems Processes: Process Description and Control. Threads, Concurrency: Mutual Exclusion and Synchronization. Concurrency: Deadlock and Starvation, Memory: Memory Management, Virtual Memory	OS design considerations for multiprocessor and multicon, overview of different operating systems Processes: Process Description and Control. Threads, Concurrency: Mutual Exclusion and Synchronization. Concurrency: Deadlock and Starvation, Memory: Memory Management, Virtual Memory	17
September	Scheduling: Uniprocessor Scheduling, Multiprocessor and Real-Time Scheduling IO and File Management: I/O Management and Disk Scheduling, File Management Operating System Security.	Scheduling: Uniprocessor Scheduling, Multiprocessor and Real-Time Scheduling IO and File Management: I/O Management and Disk Scheduling, File Management Operating System Security.	3

Signature of Coordinator:

Signature of Subject Teacher:



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DR. S. RAJAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 088

**Teaching Plan and Implementation Record (2023-24)**

Department	Information Technology
Name of teacher	Ms. Manasi Mandal

Class: 5.Y. B.Sc. IT Semester- III      Subject: Operating System Practical      Subject Code: US13P4

no. of practicals Allotted per week: 04 (Both Batches)  
No. of practicals Covered per Semester: 20  
No. Of practicals Allotted per Semester: 40

Month of teaching	Topic Proposed	Topic Covered	No. Of lectures
August	<ol style="list-style-type: none"> <li>1. Installation and configuration of virtual machines</li> <li>2. Windows commands</li> <li>3. Linux commands</li> <li>4. Working with Linux Desktop and utilities</li> </ol>	<ol style="list-style-type: none"> <li>1. Installation and configuration of virtual machines</li> <li>2. Windows commands</li> <li>3. Linux commands</li> <li>4. Working with Linux Desktop and utilities</li> </ol>	10
September	<ol style="list-style-type: none"> <li>5. Installing utility software on Linux and windows</li> <li>6. Running C/C++/Python programs on Linux</li> <li>7. Introduction to Linux Shell Scripting</li> <li>8. Case study on Server OS, Android OS &amp; Cloud OS</li> </ol>	<ol style="list-style-type: none"> <li>4. Working with Linux Desktop and utilities</li> <li>5. Installing utility software on Linux and windows</li> <li>6. Running C/C++/Python programs on Linux</li> <li>7. Introduction to Linux Shell Scripting</li> <li>8. Case study on Server OS, Android OS &amp; Cloud OS</li> </ol>	10

Signature of Coordinator: 	Signature of Subject Teacher: 
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 DR. S. RADHAKRISHNAN MARG, ANANDER (E), MUMBAI - 400 009

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of teacher</b>	Mrs. Rohini V. Jagdale

<b>Class:</b> B.Y. B.Sc. IT Semester- III	<b>Subject:</b> Applied Mathematics	<b>Subject Code:</b> USIT305
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No. of lectures Allotted per week: 01  
 No. of lectures Covered per Semester :58  
 No. of lectures Allotted per Semester: 50

Month of teaching	Topic Proposed	Topic Covered	No. of lectures
June	Matrices Complex Numbers	Matrices Complex Numbers	8
July	Equation of the first order and of the first degree Differential equation of the higher order & degree other than first Linear differential equations with constant coefficients	Equation of the first order and of the first degree Differential equation of the higher order & degree other than first Linear differential equations with constant coefficients	23
August	The Laplace Transform Inverse Laplace Transform	The Laplace Transform Inverse Laplace Transform	11
September	Multiple Integrals Applications of integration Beta and Gamma Functions Differentiation Under the Integral Sign Error Functions	Multiple Integrals Applications of integration Beta and Gamma Functions Differentiation Under the Integral Sign Error Functions	16

<b>Signature of Coordinator:</b> 	<b>Signature of Subject Teacher:</b> 
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 DR. S. RADHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 088

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of Teacher</b>	Mrs. Manasi Mandal

**Class:** S.T. B.Sc. IT Semester- III      **Subject:** Mobile Programming Practical      **Subject Code:** USIT295

**No. of practicals Allotted per week:** 04 (Both Batches)  
**No. of practicals Covered per Semester:** 24  
**No. Of practicals Allotted per Semester:** 80

Month teaching	Topic Proposed	Topic Covered	No. Of lectures
August	Setting up Flutter, PhoneGap Project and environment. 1. Features of Dart language 2. Mobile app for different widgets 3. Mobile app for different layouts. 4. Mobile app for Gestures. 5. Mobile app for theming and styling. 6. Mobile app for routing.	Setting up Flutter, PhoneGAP Project and environment. 1. Features of Dart language 2. Mobile app for different widgets 3. Mobile app for different layouts. 4. Mobile app for Gestures. 5. Mobile app for theming and styling. 6. Mobile app for routing.	14
September	7. Mobile app for animation. 8. Mobile app for state management. 9. Mobile app with SQLite Database. 10. Mobile app with Firebase.	7. Mobile app for animation. 8. Mobile app for state management. 9. Mobile app with SQLite Database. 10. Mobile app with Firebase.	10

<b>Signature of Coordinator:</b> _____	<b>Signature of Subject Teacher:</b> _____
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**Teaching Plan and Implementation Record (2021-22)**

Department:	Information Technology
Name of teacher:	Ms. Merina Ghewargharia
Class: S.T.B. In IT Semester: IV	
Subject: Core Java	
Subject Code: USIT401	
No. of lectures Allotted per week: 05	
No. of lectures Covered per Semester: 19	
No. of lectures Allotted per Semester: 62	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	Introduction: History, Features of Java, Java Development Kit, Java Application Programming Interface, Java Virtual Machine, Java Program Structure.	Introduction: History, Features of Java, Java Development Kit, Java Application Programming Interface, Java Virtual Machine, Java Program Structure.	Sem-4 classes commence from 26th October 2021 (02/14)
January	Classes: The Class Object and its Attributes, Class Methods, Accessing A Method, Method Overloading, Instantiating Objects from A Class, Constructors, this keyword, super keyword, Types of Classes, Scope Rules, Access Modifier, constants, static members of a class, garbage collection.  Inheritance: Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords, Abstract Classes and Interfaces, Abstract Classes, Abstract Methods, Interfaces: What is an interface? How is an interface Different from An Abstract Class? Multiple Inheritance, Defining an Interface, Implementing Interfaces.  Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause, Built-in Exceptions in java	Classes: The Class Object and its Attributes, Class Methods, Accessing A Method, Method Overloading, Instantiating Objects from A Class, Constructors, this keyword, super keyword, Types of Classes, Scope Rules, Access Modifier, constants, static members of a class, garbage collection.  Inheritance: Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords, Abstract Classes and Interfaces, Abstract Classes, Abstract Methods, interfaces: What is an interface? How is an interface Different from An Abstract Class? Multiple Inheritance, Defining an Interface, Implementing Interfaces.  Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause, Built-in Exceptions in java	15
February	Multithreading: Thread Creations, Thread Life Cycle, Life Cycle Methods, Synchronization,	Multithreading: Thread Creations, Thread Life Cycle, Life Cycle Methods, Synchronization,	14



	<p>java(), modify(), notify(), etc) methods Packages: Introduction to predefined packages, User Defined Packages, Access specifier, java Built in packages, Array Class, String Class</p> <p>Introduction to JFC and Swing: Features of the Java Foundation Classes, Swing AWT Components, Component Class, Container and Panels, Labels, Buttons, RadioButton, Check Boxes, Text Entry Components, Menus Layouts: Flow Layout, Grid Layout, Border Layout Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes</p>	
<p>March</p>	<p>Advanced Swing Controls: JScrollBar, Lists and Combo Boxes, Colors and File Choosers, Tables and Trees, JTabbedPane, JDBC: Introduction, JDBC Architecture, JDBC Drivers, java.sql package, Using Statement, PreparedStatement, CallableStatement, ResultSet</p>	<p>DE</p>
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>	



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of teacher</b>	Ms. Merina Ghosevarghese



Class: S.Y. B.Sc. IT Semester - IV  
 Subject: Core Java Practical  
 Subject Code: UJT4P1

No. of practicals Allotted per week: 02  
 No. of practicals Covered per Semester: 24  
 No. of practicals Allotted per Semester: 30

Month of teaching	Topics Proposed	Topic Covered	No. of lectures
January	<p>1. OOPs concepts in Java – 1 a. Write a program to create a class and implement a default, overloaded and copy Constructor. b. Write a program to create a class and implement the concepts of Method Overloading c. Write a program to create a class and implement the concepts of Static methods</p> <p>2. OOPs concepts in Java – 2 a. Write a program to implement the concepts of Inheritance and Method overriding b. Write a program to implement the concepts of Abstract classes and methods c. Write a program to implement the concept of interfaces</p> <p>3. Exceptions a. Write a program to raise built-in exceptions and raise them as per the requirements b. Write a program to define user defined exceptions and raise them as per the requirements</p> <p>4. Multithreading: Write a java application to demonstrate 5 bouncing balls of different colors using threads.</p>	<p>1. OOPs concepts in Java – 1 a. Write a program to create a class and implement a default, overloaded and copy Constructor. b. Write a program to create a class and implement the concepts of Method Overloading c. Write a program to create a class and implement the concepts of Static methods</p> <p>2. OOPs concepts in Java – 2 a. Write a program to implement the concepts of Inheritance and Method overriding b. Write a program to implement the concepts of Abstract classes and methods c. Write a program to implement the concept of interfaces.</p> <p>3. Exceptions a. Write a program to raise built-in exceptions and raise them as per the requirements b. Write a program to define user defined exceptions and raise them as per the requirements</p> <p>4. Multithreading: Write a java application to demonstrate 5 bouncing balls of different colors using threads.</p>	10



*Handwritten initials/signature*

February	<p>6. JDBC: a. Write a JDBC program that displays the data of a given table in a GUI Table. b. Write a JDBC program to show the details of a specified product from a given table selected using Combobox. c. Write a GUI application to Navigate forward and reverse result set data.</p> <p>8. Swing: a. Create a swing application that randomly changes color on button click. b. Create a swing application to demonstrate use of Textarea using scrollbar to show content of text file in textarea selected using file chooser. c. Create a swing application to demonstrate use of scrollbar to change its color selected using colour chooser.</p> <p>7. Layouts: Write programs for the following layouts: 7.1 a. Flow Layout b. Grid Layout c. Border Layout.</p>	<p>6. JDBC: a. Write a JDBC program that displays the data of a given table in a GUI Table. b. Write a JDBC program to show the details of a specified product from a given table selected using Combobox. c. Write a GUI application to Navigate forward and reverse result set data.</p> <p>8. Swing: a. Create a swing application that randomly changes color on button click. b. Create a Swing application to demonstrate use of Textarea using scrollbar to show content of text file in textarea selected using file chooser. c. Create a swing application to demonstrate use of scrollbar to change its color selected using colour chooser.</p> <p>7. Layouts: Write programs for the following layouts: 7.1 a. Flow Layout b. Grid Layout c. Border Layout.</p>	10
March	<p>8. Events: Write programs to demonstrate the following events: a. ActionEvent b. MouseEvent c. KeyEvent d. SelectionEvent e. FocusEvent</p> <p>9. Demonstrate the use of Adapter Class in Event Handling</p> <p>10. Demonstrate the use of Anonymous Inner Class in Event Handling</p>	<p>8. Events: Write programs to demonstrate the following events: a. ActionEvent b. MouseEvent c. KeyEvent d. SelectionEvent e. FocusEvent</p> <p>9. Demonstrate the use of Adapter Class in Event Handling</p> <p>10. Demonstrate the use of Anonymous Inner Class in Event Handling</p>	04
Signature of Coordinator: 		Signature of Subject Teacher: 	



LAXMI CHARITABLE TRUST'S  
SHETH U.L.L. & S.R.M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 088

**Teaching Plan and Implementation Record (2023-24)**

Department		Information Technology	
Name of teacher		Mrs. Sneha Gokamkar	
Class : S. Y. B.Sc. IT Semester - IV			
Subject: Introduction to Embedded Systems			
Subject Code: IIT402			
No. of lectures Allotted per week: 05			
No. Of lectures Covered per Semester: 45			
No. Of lectures Allotted per Semester: 60			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
November	I. Introduction: Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	I. Introduction: Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	02
December	<p><b>Core of embedded systems:</b> microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.</p> <p><b>Characteristics and quality attributes of embedded systems:</b> Characteristics, operational and non-operational quality attributes.</p> <p><b>II. Embedded Systems – Application and Domain Specific:</b> Application specific washing machine, domain specific - automotive.</p> <p><b>Embedded Hardware:</b> Memory map, I/O map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,flash memory.</p>	<p><b>Core of embedded systems:</b> microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.</p> <p><b>Characteristics and quality attributes of embedded systems:</b> Characteristics, operational and non-operational quality attributes.</p> <p><b>II. Embedded Systems – Application and Domain Specific:</b> Application specific washing machine, domain specific - automotive.</p> <p><b>Embedded Hardware:</b> Memory map, I/O map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,flash memory.</p>	14



Peripherals, Control and Status registers, Device Driver, Timer Driver - Watchdog Timers.  
III. The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family, 8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory

**8051 Programming in C:**  
Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.  
IV. Designing Embedded System with 8051 Microcontroller: Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.  
Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging

**V. Real Time Operating System (RTOS):**  
Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS.  
**Design and Development:** Embedded system development Environment - IDE, types of file generated on cross compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry

Peripherals/ Control and Status registers, Device Driver, Timer Driver - Watchdog Timers.  
III. The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family, 8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory

**8051 Programming in C:**  
Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.  
IV. Designing Embedded System with 8051 Microcontroller: Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.  
Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging

**V. Real Time Operating System (RTOS):**  
Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS.  
**Design and Development:** Embedded system development Environment - IDE, types of file generated on cross compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry

January

February

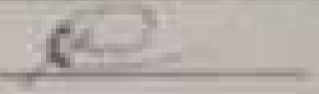
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Signature of Coordinator: \_\_\_\_\_



Signature of Subject Teacher: \_\_\_\_\_



**Teaching Plan and Implementation Record (2023-24)**

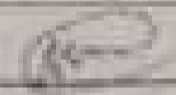

Department	Information Technology
Name of teacher	Mrs. Shaba Gokamkar

Class: B. Sc. IT Semester- IV  
 Subject: Introduction to Embedded Systems Practical  
 Subject Code: IIT4P2

No. of practicals Allotted per week: 08  
 No. of practicals Covered per Semester: 40  
 No. of practicals Allotted per Semester: 40

Month of teaching	Topics Proposed	Topic Covered	No. of Practical per topic
December	1. Design and develop a reprogrammable embedded computer using 8051 microcontrollers and to show the following aspects: a. Programming b. Execution c. Debugging 2. A Configure timer control registers of 8051 and develop a program to generate given time delay. B To demonstrate use of general purpose port i.e. input/ output port of two controllers for data transfer between them.	1. Design and develop a reprogrammable embedded computer using 8051 microcontrollers and to show the following aspects: a. Programming b. Execution c. Debugging 2. A Configure timer control registers of 8051 and develop a program to generate given time delay. B To demonstrate use of general purpose port i.e. input/ output port of two controllers for data transfer between them.	8
January	3. A Port I / O: Use one of the four ports of 8051 for O/P interfaced to eight LED's. Simulate binary counter (8 bit) on LED's. B To interface 8 LEDs at input-output port and create different patterns. C To demonstrate timer working in timer mode and blink LED without using any loop delay routine. 4. A Serial I / O: Configure 8051 serial port for asynchronous serial communication with serial port of PC exchange text messages to PC and display on PC screen. Signify end of message by carriage return.	3. A Port I / O: Use one of the four ports of 8051 for O/P interfaced to eight LED's. Simulate binary counter (8 bit) on LED's. B To interface 8 LEDs at input-output port and create different patterns. C To demonstrate timer working in timer mode and blink LED without using any loop delay routine. 4. A Serial I / O: Configure 8051 serial port for asynchronous serial communication with serial port of PC exchange text messages to PC and display on PC screen. Signify end of message by carriage return.	18



	<p>B To demonstrate interfacing of seven segment LED display and generate counting from 0 to 99 with fixed time delay. C Interface 8051 with D/A converter and generate square wave of given frequency on oscilloscope.</p> <p>5. A interface 8051 with D/A converter and generate triangular wave of given frequency on oscilloscope.</p> <p>6 Using D/A converter generate sine wave on oscilloscope with the help of lookup table stored in data area of 8051.</p>	<p>B To demonstrate interfacing of seven segment LED display and generate counting from 0 to 99 with fixed time delay. C interface 8051 with D/A converter and generate square wave of given frequency on oscilloscope.</p> <p>5. A interface 8051 with D/A converter and generate triangular wave of given frequency on oscilloscope.</p> <p>6 Using D/A converter generate sine wave on oscilloscope with the help of lookup table stored in data area of 8051.</p>	
February	<p>6. Interface stepper motor with 8051 and write a program to move the motor through a given angle in clock wise or counter clock wise direction.</p> <p>7. Generate traffic signal.</p> <p>8. Implement Temperature controller.</p> <p>10. Using FlashMagic A To demonstrate the procedure for flash programming for reprogrammable embedded system board using FlashMagic</p>	<p>6. Interface stepper motor with 8051 and write a program to move the motor through a given angle in clock wise or counter clock wise direction.</p> <p>7. Generate traffic signal.</p> <p>8. Implement Temperature controller.</p> <p>10. Using FlashMagic A To demonstrate the procedure for flash programming for reprogrammable embedded system board using FlashMagic</p>	14
Signature of Coordinator: _____		Signature of Subject Teacher: _____	



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of teacher</b>	Mrs. Rohini V. Jagdale
<b>Class:</b> S.Y. B.Sc. IT Semester-IV	
<b>Subject:</b> Computer Oriented Statistical Techniques	
<b>Subject Code:</b> USIT403	

**No. of lectures Allotted per week:** 05  
**No. of lectures Covered per Semester:** 37  
**No. of lectures Allotted per Semester:** 50

Month of teaching	Topics Proposed	Topic Covered	No. of lectures
December	Introduction to R: Basic syntax, data types, variables, operators, control statements, R-functions, R-Vectors, R-lists, R Arrays. The Mean, Median, Mode, and Other Measures of Central Tendency: Index, or Subscript, Notation, Summation Notation, Averages, or Measures of Central Tendency. The Arithmetic Mean, The Weighted Arithmetic Mean, Properties of the Arithmetic Mean, The Arithmetic Mean Computed from Grouped Data, The Median, The Mode, The Empirical Relation Between the Mean, Median, and Mode, The Geometric Mean G, The Harmonic Mean H, The Relation Between the Arithmetic, Geometric, and Harmonic Means, The Root Mean Square, Quartiles, Deciles, and Percentiles, Software and Measures of Central Tendency. The Standard Deviation and Other Measures of Dispersion: Dispersion, or Variation, The Range, The Mean Deviation, The Semi inter quartile Range, The 10-90 Percentile Range, The Standard Deviation, The Variance, Short Methods for Computing the Standard Deviation, Properties of the Standard Deviation, Charlie's Check, Sheppard's	Introduction to R: Basic syntax, data types, variables, operators, control statements, R-functions, R-Vectors, R-lists, R Arrays. The Mean, Median, Mode, and Other Measures of Central Tendency: Index, or Subscript, Notation, Summation Notation, Averages, or Measures of Central Tendency. The Arithmetic Mean, The Weighted Arithmetic Mean, Properties of the Arithmetic Mean, The Arithmetic Mean Computed from Grouped Data, The Median, The Mode, The Empirical Relation Between the Mean, Median, and Mode, The Geometric Mean G, The Harmonic Mean H, The Relation Between the Arithmetic, Geometric, and Harmonic Means, The Root Mean Square, Quartiles, Deciles, and Percentiles, Software and Measures of Central Tendency. The Standard Deviation and Other Measures of Dispersion: Dispersion, or Variation, The Range, The Mean Deviation, The Semi inter quartile Range, The 10-90 Percentile Range, The Standard Deviation, The Variance, Short Methods for Computing the Standard Deviation, Properties of the Standard Deviation, Charlie's Check, Sheppard's	10



Correction for Variance, Empirical Relations Between Measures of Dispersion, Absolute and Relative Dispersion, Coefficient of Variation, Standardized Variable, Standard Scores, Software and Measures of Dispersion Moments, Skewness, and Kurtosis: Moments, Moments for Grouped Data, Relations Between Moments, Computation of Moments for Grouped Data, Charlier's Check and Sheppard's Corrections, Moments in Dimensionless Form, Skewness, Kurtosis, Population Moments, Skewness, and Kurtosis, Software Computation of Skewness and Kurtosis, Elementary Probability Theory: Definitions of Probability, Conditional Probability, Independent and Dependent Events, Mutually Exclusive Events, Probability Distributions, Mathematical Expectation, Relation Between Population, Sample Mean, and Variance, Combinatorial Analysis, Combinations, Stirling's Approximation to  $n!$ , Relation of Probability to Point Set Theory, Euler or Venn Diagrams and Probability, Elementary Sampling Theory: Sampling Theory, Random Samples and Random Numbers, Sampling With and Without Replacement, Sampling Distributions, Sampling Distribution of Means, Sampling Distribution of Proportions, Sampling Distributions of Differences and Sums, Standard Errors, Software Demonstration of Elementary Sampling Theory.

Correction for Variance, Empirical Relations Between Measures of Dispersion, Absolute and Relative Dispersion, Coefficient of Variation, Standardized Variable, Standard Scores, Software and Measures of Dispersion Moments, Skewness, and Kurtosis: Moments, Moments for Grouped Data, Relations Between Moments, Computation of Moments for Grouped Data, Charlier's Check and Sheppard's Corrections, Moments in Dimensionless Form, Skewness, Kurtosis, Population Moments, Skewness, and Kurtosis, Software Computation of Skewness and Kurtosis, Elementary Probability Theory: Definitions of Probability, Conditional Probability, Independent and Dependent Events, Mutually Exclusive Events, Probability Distributions, Mathematical Expectation, Relation Between Population, Sample Mean, and Variance, Combinatorial Analysis, Combinations, Stirling's Approximation to  $n!$ , Relation of Probability to Point Set Theory, Euler or Venn Diagrams and Probability, Elementary Sampling Theory: Sampling Theory, Random Samples and Random Numbers, Sampling With and Without Replacement, Sampling Distributions, Sampling Distribution of Means, Sampling Distribution of Proportions, Sampling Distributions of Differences and Sums, Standard Errors, Software Demonstration of Elementary Sampling Theory.

January

Statistical Estimation Theory: Estimation of Parameters, Unbiased Estimates, Efficient Estimates, Point Estimates and Interval Estimates, Their Reliability, Confidence-Interval Estimates of Population Parameters, Probable Error.

Statistical Estimation Theory: Estimation of Parameters, Unbiased Estimates, Efficient Estimates, Point Estimates and Interval Estimates, Their Reliability, Confidence-Interval Estimates of Population Parameters, Probable Error.

9

January

Statistical Decision Theory: Statistical Decisions, Statistical Hypotheses, Tests of Hypotheses and Significance, or Decision Rules, Type I and Type II Errors, Level of Significance, Tests Involving Normal Distributions, Two-Tailed and One-Tailed

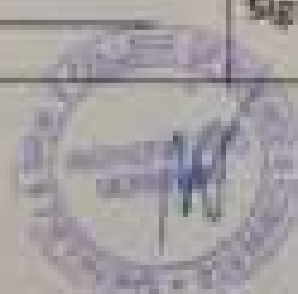
Statistical Decision Theory: Statistical Decisions, Statistical Hypotheses, Tests of Hypotheses and Significance, or Decision Rules, Type I and Type II Errors, Level of Significance, Tests Involving Normal Distributions, Two-Tailed and One-Tailed



	<p>Tests, Special Tests, Operating-Characteristic Curves; the Power of a Test, p-Values for Hypothesis Tests, Control Charts, Tests Involving Sample Differences, Tests Involving Binomial Distributions, Statistics in R: mean, median, mode, Normal Distribution, Binomial Distribution, Frequency Distribution in R.</p> <p>Small Sampling Theory: Small Samples, Student's t Distribution, Confidence Intervals, Tests of Hypotheses and Significance, The Chi-Square Distribution, Confidence Intervals for Sigma, Degrees of Freedom, The F Distribution.</p>	<p>Tests, Special Tests, Operating-Characteristic Curves; the Power of a Test, p-Values for Hypothesis Tests, Control Charts, Tests Involving Sample Differences, Tests Involving Binomial Distributions, Statistics in R: mean, median, mode, Normal Distribution, Binomial Distribution, Frequency Distribution in R.</p> <p>Small Sampling Theory: Small Samples, Student's t Distribution, Confidence Intervals, Tests of Hypotheses and Significance, The Chi-Square Distribution, Confidence Intervals for Sigma, Degrees of Freedom, The F Distribution.</p>	
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February	<p>The Chi-Square Test: Observed and Theoretical Frequencies, Definition of chi-square, Significance Tests, The Chi-Square Test for Goodness of Fit, Contingency Tables, Yates' Correction for Continuity, Simple Formulas for Computing chi-square, Coefficient of Contingency, Correlation of Attributes, Additive Property of chi-square Curve Fitting and the Method of Least Squares, Relationship Between Variables, Curve Fitting, Equations of Approximating Curves, Freehand Method of Curve Fitting, The Straight Line, The Method of Least Squares, The Least-Squares Line, Nonlinear Relationships, The Least-Squares Parabola, Regression, Applications to Time Series, Problems Involving More Than Two Variables, Correlation Theory: Correlation and Regression, Linear Correlation, Measures of Correlation, The Least-Squares Regression Lines, Standard Error of Estimate, Explained and Unexplained Variation, Coefficient of Correlation, Remarks Concerning the Correlation Coefficient, Product-Moment Formula for the Linear Correlation Coefficient, Short Computational Formulas, Regression Lines and the Linear Correlation Coefficient, Correlation of Time Series, Correlation of Attributes, Sampling Theory of Correlation, Sampling Theory of Regression.</p>	<p>The Chi-Square Test: Observed and Theoretical Frequencies, Definition of chi-square, Significance Tests, The Chi-Square Test for Goodness of Fit, Contingency Tables, Yates' Correction for Continuity, Simple Formulas for Computing chi-square, Coefficient of Contingency, Correlation of Attributes, Additive Property of chi-square Curve Fitting and the Method of Least Squares, Relationship Between Variables, Curve Fitting, Equations of Approximating Curves, Freehand Method of Curve Fitting, The Straight Line, The Method of Least Squares, The Least-Squares Line, Nonlinear Relationships, The Least-Squares Parabola, Regression, Applications to Time Series, Problems Involving More Than Two Variables, Correlation Theory: Correlation and Regression, Linear Correlation, Measures of Correlation, The Least-Squares Regression Lines, Standard Error of Estimate, Explained and Unexplained Variation, Coefficient of Correlation, Remarks Concerning the Correlation Coefficient, Product-Moment Formula for the Linear Correlation Coefficient, Short Computational Formulas, Regression Lines and the Linear Correlation Coefficient, Correlation of Time Series, Correlation of Attributes, Sampling Theory of Correlation, Sampling Theory of Regression.</p>	28
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Signature of Coordinator: \_\_\_\_\_ Signature of Subject Teacher: \_\_\_\_\_



LADNI CHARITABLE TRUST'S  
 SHETH L.L.J. & SIB M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANCHERI (2), MUMBAI - 400 089

**Teaching Plan and Implementation Record (2023-24)**

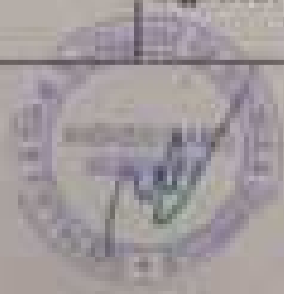
<b>Department:</b>	Information Technology
<b>Name of Teacher:</b>	Mrs. Rohini V. Jagdale

Class: B.V. B.Sc. IT Semester: IV  
 Subject: Computer Oriented Statistical Techniques Practical  
 Subject Code: USTAP3

No. of practicals Allotted per week: 02  
 No. of practicals Covered per Semester: 24  
 No. of practicals Allotted per Semester: 30

Month of Teaching	Topics Proposed	Topic Covered	No. of lectures
January	1. Using R execute the basic commands, array, list and frames. 2. Create a Matrix using R and Perform the operations addition, inverse, transpose and multiplication operations. 3. Using R Execute the statistical functions: mean, median, mode, quartiles, range, inter quartile range histogram 4. Using R import the data from Excel / CSV file and Perform the above functions. 5. Using R import the data from Excel / CSV file and Calculate the standard deviation, variance, co-variance.	1. Using R execute the basic commands, array, list and frames. 2. Create a Matrix using R and Perform the operations addition, inverse, transpose and multiplication operations. 3. Using R Execute the statistical functions: mean, median, mode, quartiles, range, inter quartile range histogram 4. Using R import the data from Excel / CSV file and Perform the above functions. 5. Using R import the data from Excel / CSV file and Calculate the standard deviation, variance, co-variance.	10
February	6. Using R import the data from Excel / CSV file and draw the skewness. 7. Import the data from Excel / CSV and perform the hypothetical testing. 8. Import the data from Excel / CSV and perform the Chi-squared Test. 9. Using R perform the binomial and normal distribution on the data.	6. Using R import the data from Excel / CSV file and draw the skewness. 7. Import the data from Excel / CSV and perform the hypothetical testing. 8. Import the data from Excel / CSV and perform the Chi-squared Test. 9. Using R perform the binomial and normal distribution on the data.	14

Signature of Coordinator: \_\_\_\_\_ Signature of Subject Teacher: \_\_\_\_\_



LAXMI CHARITABLE TRUSTS  
 SHETH L.U.J. & S.R.M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 009

**Teaching Plan and Implementation Record (2023-24)**

Department	Information Technology
Name of teacher	Ms. Anisha P

Class: B.Y. B.Sc. IT Semester- IV  
 Subject: Software Engineering  
 Subject Code: UST404

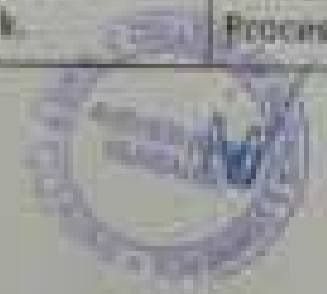
No. of lectures Allotted per week: 04  
 No. of lectures Covered per Semester: 39  
 No. of lectures Allotted per Semester: 45


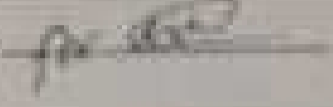
Month of teaching	Topics Proposed	Topic Covered	No. of lectures
December	Introduction: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models: • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model. Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	Introduction: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models: • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model. Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	3
January	Socio-technical system: Essential characteristics of socio technical systems. Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems. Critical system: Types of	Socio-technical system: Essential characteristics of socio technical systems. Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems. Critical system: Types of	



	<p>critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems, Requirements Engineering Processes, Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management, System Models: Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods, Architectural Design, Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures</p> <p>User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation</p> <p>Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management, Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics</p>	<p>critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems, Requirements Engineering Processes, Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management, System Models: Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods, Architectural Design, Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures</p> <p>User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation</p> <p>Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management, Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics</p>	10
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February	<p>Verification and Validation: Planning, Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods, Software Testing: System Testing, Component Testing, Test Case Design, Test Automation, Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics Software Cost Estimation: Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing Software Cost Estimation: Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing</p> <p>Process Improvement: Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework</p>	<p>Verification and Validation: Planning, Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods, Software Testing: System Testing, Component Testing, Test Case Design, Test Automation, Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics Software Cost Estimation: Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing Software Cost Estimation: Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing</p> <p>Process Improvement: Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework</p>	18
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<p>March</p>	<p>Service Oriented Software Engineering: Services as reusable components, Service Engineering, Software Development with Services, Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse  Distributed software engineering: Distributed systems issues, Client-server computing, Architectural patterns for distributed systems, Software as a service</p>	<p>Service Oriented Software Engineering: Services as reusable components, Service Engineering, Software Development with Services, Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse, Distributed software engineering: Distributed systems issues, Client-server computing, Architectural patterns for distributed systems, Software as a service</p>	<p>8</p>
<p>Signature of Coordinator: </p>		<p>Signature of Subject Teacher: </p>	



**Teaching Plan and Implementation Record (2023-24)**



<b>Department</b>	Information Technology
<b>Name of teacher</b>	Ms. Manica Ghewarghose

**Class:** 5<sup>th</sup> B.Sc. IT Semester- IV  
**Subject:** Software Engineering Practical  
**Subject Code:** UST4P4

**No. of practicals Allotted per week:** 02  
**No. of practicals Covered per Semester:** 20  
**No. of practicals Allotted per Semester:** 20

Month of teaching	Topics Proposed	Topic Covered	No. of lectures
January	1. Study and implementation of class diagrams. 2. Study and implementation of Use Case Diagrams	1. Study and implementation of class diagrams. 2. Study and implementation of Use Case Diagrams	6
February	3. Study and implementation of Entity Relationship Diagrams. 4. Study and implementation of Sequence Diagrams. 5. Study and implementation of State Transition Diagrams.  6. Study and implementation of Data Flow Diagrams. 7. Study and implementation of Collaboration Diagrams. 8. Study and implementation of Activity Diagrams.	3. Study and implementation of Entity Relationship Diagrams. 4. Study and implementation of Sequence Diagrams. 5. Study and implementation of State Transition Diagrams.  6. Study and implementation of Data Flow Diagrams. 7. Study and implementation of Collaboration Diagrams. 8. Study and implementation of Activity Diagrams.	12



March	8. Study and implementation of Component Diagrams. 10. Study and implementation of Deployment Diagrams.	8. Study and implementation of Component Diagrams. 10. Study and implementation of Deployment Diagrams.	2
Signature of Coordinator: 		Signature of Subject Teacher: 	



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	Information Technology
<b>Name of teacher</b>	Mr. Sandeep Tripathi

Class: B.V. B.Sc. (5 Semester)- IV  
 Subject: Computer Graphics & Animation  
 Subject Code: I5T7A25

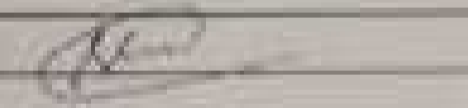
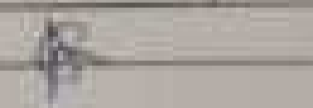
No. of lectures Allotted per week: 05  
 No. of lectures Covered per Semester: 58  
 No. of lectures Allotted per Semester: 60

Month of teaching	Topics Proposed	Topic Covered	No. of lectures
October	Introduction to Computer Graphics, Overview of Computer Graphics, Computer Graphics Application and Software, Description of some graphics devices, Input Devices for Operator Interaction.	Introduction to Computer Graphics, Overview of Computer Graphics, Computer Graphics Application and Software, Description of some graphics devices, Input Devices for Operator Interaction.	3
November	Active and Passive Graphics Devices, Display Technologies, Storage Tube Graphics Displays, Calligraphic Refresh Graphics Displays, Raster Refresh (Raster-Scan) Graphics Displays, Cathode Ray Tube Basics, Color CRT Raster Scan Basics, Video Basics, The Video Controller, Random-Scan Display Processor, LCD displays, Scan conversion – Digital Differential Analyzer (DDA) algorithm, Bresenham's Line drawing algorithm, Bresenham's method of Circle drawing, Midpoint Circle Algorithm, Midpoint Ellipse Algorithm, Mid-point criteria, Problems of Aliasing, end-point ordering and clipping lines, Scan Converting Circles, Clipping Lines algorithms– Cyrus-Beck, Cohen-Sutherland and Liang Barsky, Clipping Polygons, problem with multiple components.	Active and Passive Graphics Devices, Display Technologies, Storage Tube Graphics Displays, Calligraphic Refresh Graphics Displays, Raster Refresh (Raster-Scan) Graphics Displays, Cathode Ray Tube Basics, Color CRT Raster Scan Basics, Video Basics, The Video Controller, Random-Scan Display Processor, LCD displays, Scan conversion – Digital Differential Analyzer (DDA) algorithm, Bresenham's Line drawing algorithm, Bresenham's method of Circle drawing, Midpoint Circle Algorithm, Midpoint Ellipse Algorithm, Mid-point criteria, Problems of Aliasing, end-point ordering and clipping lines, Scan Converting Circles, Clipping Lines algorithm– Cyrus-Beck, Cohen-Sutherland and Liang-Barsky, Clipping Polygons, problem with multiple components	11



December 01	<p>Two-Dimensional Transformations: Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations, Three-Dimensional Transformations, Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.</p>	<p>Two-Dimensional Transformations: Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations, Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.</p>	11
January	<p>Viewing in 3D Stages in 3D viewing, Canonical View Volume (CVV), Specifying an Arbitrary 3D view, Examples of 3D Viewing, The Mathematics of Planar Geometric Projections, Combined transformation matrices for projections and viewing, Coordinate Systems and matrices, camera model and viewing pyramid, Light: Radiometry, Transport, Equation, Photometry Color: Colorimetry, Color Spaces, Chromatic Adaptation, Color Appearance</p>	<p>Viewing in 3D Stages in 3D viewing, Canonical View Volume (CVV), Specifying an Arbitrary 3D View, Examples of 3D viewing, The Mathematics of Planar Geometric Projections, Combined transformation matrices for projections and viewing, Coordinate Systems and matrices, camera model and viewing pyramid, Light: Radiometry, Transport, Equation, Photometry Color: Colorimetry, Color Spaces, Chromatic Adaptation, Color Appearance</p>	12



February 4	<p>Visible Surface Determination: Techniques for efficient Visible Surface Algorithms, Categories of algorithms, Back face removal, The z-Buffer Algorithm, Scan-line method, Painter's algorithm (depth sorting), Area sub-division method, BSP trees, Visible Surface Ray Tracing, comparison of the methods.</p> <p>Plane Curves and Surfaces: Curve Representation, Nonparametric Curves, Parametric Curves, Parametric Representation of a Circle, Parametric Representation of an Ellipse, Parametric Representation of a Parabola, Parametric Representation of a Hyperbola, Representation of Space Curves, Cubic Splines, , Bézier Curves, B-spline Curves, B-spline Curve Fit, B-spline Curve Subdivision, Parametric Cubic Curves, Quadric Surfaces, Bézier Surfaces.</p> <p>Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.</p>	<p>Visible Surface Determination: Techniques for efficient Visible Surface Algorithms, Categories of algorithms, Back face removal, The z-Buffer Algorithm, Scan-line method, Painter's algorithm (depth sorting), Area sub-division method, BSP trees, Visible Surface Ray Tracing, comparison of the methods.</p> <p>Plane Curves and Surfaces: Curve Representation, Nonparametric Curves, Parametric Curves, Parametric Representation of a Circle, Parametric Representation of an Ellipse, Parametric Representation of a Parabola, Parametric Representation of a Hyperbola, Representation of Space Curves, Cubic Splines, , Bézier Curves, B-spline Curves, B-spline Curve Fit, B-spline Curve Subdivision, Parametric Cubic Curves, Quadric Surfaces, Bézier surfaces.</p> <p>Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.</p>	18
March	<p>Image Manipulation and Storage: What is an image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median filtering</p>	<p>Image Manipulation and Storage: What is an image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median filtering</p>	4
Signature of Coordinator: 		Signature of Subject Teacher: 	



**Teaching Plan and Implementation Record (2023-24)**

Department: Information Technology


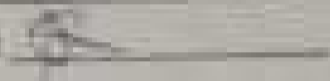
Name of teacher: Mr. Sumit Tripathi

Class: S.Y. B.Sc. IT Semester- IV  
 Subject: Computer Graphics and Animation Practical  
 Subject Code: USIT4P5

No. of practicals Allotted per week: 02  
 No. of practicals Covered per Semester: 23  
 No. of practicals Allotted per Semester: 30

Month of teaching	Topics Proposed	Topic Covered	No. of lectures
December	1 a. Study and enlist the basic functions used for graphics in C / C++ / Python language. Give an example for each of them. b. Draw a co-ordinate axis at the center of the screen.	1 a. Study and enlist the basic functions used for graphics in C / C++ / Python language. Give an example for each of them. b. Draw a co-ordinate axis at the center of the screen.	4
January	2 a. Divide your screen into four region, draw circle, rectangle, ellipse and half ellipse in each region with appropriate message. b. Draw a simple hut on the screen.  3. Draw the following basic shapes in the center of the screen: i. Circle ii. Rectangle iii. Square iv. Concentric Circles v. Ellipse vi. Line 4 a. Develop the program for ODA Line drawing algorithm 4 b. Develop the program for Bresenham's Line drawing algorithm.	2 a. Divide your screen into four region, draw circle, rectangle, ellipse and half ellipse in each region with appropriate message. b. Draw a simple hut on the screen.  3. Draw the following basic shapes in the center of the screen : i. Circle ii. Rectangle iii. Square iv. Concentric Circles v. Ellipse vi. Line 4 a. Develop the program for DDA Line drawing algorithm 4 b. Develop the program for Bresenham's Line drawing algorithm.	10



February	<p>5 a. Develop the program for the mid-point circle drawing algorithm. b. Develop the program for the mid-point ellipse drawing algorithm.</p> <p>6 a. Write a program to implement 2D scaling.</p> <p>b. Write a program to perform 2D translation.</p> <p>7 a. Perform 2D Rotation on a given object.</p> <p>b. Program to create a house like figure and perform the following operations. i. Scaling about the origin followed by translation. ii. Scaling with reference to an arbitrary point. iii. Reflect about the line <math>y = mx + c</math>.</p>	<p>5 a. Develop the program for the mid-point circle drawing algorithm. b. Develop the program for the mid-point ellipse drawing algorithm.</p> <p>6 a. Write a program to implement 2D scaling.</p> <p>b. Write a program to perform 2D translation.</p> <p>7 a. Perform 2D Rotation on a given object.</p> <p>b. Program to create a house like figure and perform the following operations. i. Scaling about the origin followed by translation. ii. Scaling with reference to an arbitrary point. iii. Reflect about the line <math>y = mx + c</math>.</p>	8
March	8 a. Write a program to implement Cohen-Sutherland clipping.	8 a. Write a program to implement Cohen-Sutherland clipping.	9
Signature of Coordinator: 		Signature of Subject Teacher: 	



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**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	B.Sc. Information Technology
<b>Name of teacher</b>	Ms. Marina Ghanshyam

**Class:** I.Y. B.Sc. IT Semester-V  
**Subject:** Software Project Management  
**Subject Code:** ISM505

**No. of lectures Allotted per week:** 05  
**No. Of lectures Covered per Semester:** 55  
**No. Of lectures Allotted per Semester:** 60

Mon th of teach- ing	Topic Proposed	Topic Un-Covered with reason	No. of lectur- es
July	<b>Introduction to Software Project Management:</b> Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	<b>Introduction to Software Project Management:</b> Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	Culleg e reper s on 12th June 2024
	<b>Project Evaluation and Programme Management :</b> Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost-benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management. <b>An Overview of Project Planning :</b> Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project	<b>Project Evaluation and Programme Management :</b> Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost-benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management. <b>An Overview of Project Planning :</b> Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify	14





	<p>Infrastructure. Step 1: Analyse Project Characteristics, Step 2: Identify Project Products and Activities, Step 3: Estimate Effort for Each Activity, Step 4: Identify Activity Risks, Step 5: Allocate Resources, Step 6: Review Production Plan, Steps 7 and 8: Update Plan/Lower Levels of Planning</p> <p><b>Selection of an Appropriate Project Approach:</b> Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model</p>	<p>Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review Production Plan, Steps 7 and 8: Update Plan/Lower Levels of Planning</p> <p><b>Selection of an Appropriate Project Approach:</b> Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model</p>	
<p>Nov</p>	<p><b>Software Effort Estimation:</b> Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottomup Estimating, The Top-down Approach and Parametric Models, 12 Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Cagers Jones Estimating Rules of Thumb Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services</p> <p><b>Activity Planning:</b> Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks</p>	<p><b>Software Effort Estimation:</b> Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottomup Estimating, The Top-down Approach and Parametric Models, 12 Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Cagers Jones Estimating Rules of Thumb Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services</p> <p><b>Activity Planning:</b> Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks</p>	<p>21</p>



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Sept	<p><b>Risk Management:</b> Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm's Top 10 Risks and Counter Measures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.</p> <p><b>Resource Allocation:</b> Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.</p> <p><b>Monitoring and Control:</b> Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).</p> <p><b>Managing Contracts:</b> Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.</p> <p><b>Managing People in Software Environments:</b> Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Graham-Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.</p>	<p><b>Risk Management:</b> Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm's Top 10 Risks and Counter Measures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.</p> <p><b>Resource Allocation:</b> Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.</p> <p><b>Monitoring and Control:</b> Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).</p>	19
Oct	<p><b>Working in Teams:</b> Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Games, Communication Plans, Leadership.</p>	<p><b>Working in Teams:</b> Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Games, Communication Plans, Leadership.</p>	
	<p><b>Software Quality :</b> Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.</p>	<p><b>Software Quality :</b> Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.</p>	07



NOV	Project Closure: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closure Report	Project Closure: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closure Report	01
Signature of Coordinator: 		Signature of Subject Teacher: 	



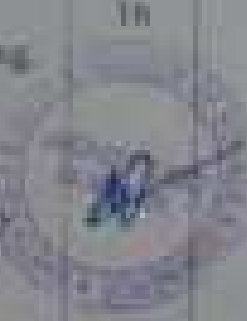
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**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		B.Sc. IT	
<b>Name of teacher</b>		Mrs. Anshu Gokarnkar	
Class: I, Y B.Sc. IT Semester: 05			
Subject: Internet of Things			
Subject Code: ISIT502			
No. of lectures Allotted per week: 05			
No. of lectures Covered per Semester: 59			
No. of lectures Allotted per Semester: 60			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
June	I. The Internet of Things: An Overview: The Flavours of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, What is Making the Internet of Things? Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Gracious Degradation, Affordances	I. The Internet of Things: An Overview: The Flavours of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things? Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Gracious Degradation, Affordances	14
July	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses, DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP.	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses, DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS, Encrypted HTTP, Other Application Layer Protocols II. Thinking About Prototyping: Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing	15 (1st lecture done on last week as less lecture was conducted. Another



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	<p>HTTPS: Encrypted HTTP, Other Application Layer Protocols.</p> <p><b>II. Thinking About Prototyping:</b> Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation, climbing into the Cloud, Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community, <b>Prototyping Embedded Devices:</b> Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chip, Choosing Your Platform, <b>Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness.</b></p>	<p>Embedded Platform, Physical Prototypes and Mass Personalisation, climbing into the Cloud, Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community, <b>Prototyping Embedded Devices:</b> Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chip, Choosing Your Platform</p>	<p>and Every time you cover a new month</p>
<p>August</p>	<p><b>III. Prototyping the Physical Design:</b> Preparation, Sketch, Iterate, and Explore, Non-digital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling, <b>Prototyping Online Components:</b> Getting Started with an API, Making Up APIs, Scraping, Legality, writing a New API, Checkstyle, Security, implementing the API, Using curl to Test, Going Further, Real-Time Reactions, Polling, Cases, Other Protocols, MQTT Telemetry Transport, Extensible Messaging and Presence Protocol, Constrained Application Protocol.</p> <p><b>IV. Techniques for Writing Embedded Code:</b> Memory Management, Types of Memory,</p>	<p><b>Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness.</b></p> <p><b>III. Prototyping the Physical Design:</b> Preparation, Sketch, Iterate, and Explore, Non-digital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling, <b>Prototyping Online Components:</b> Getting Started with an API, Making Up APIs, Scraping, Legality, writing a New API, Checkstyle, Security, implementing the API, Using curl to Test, Going Further, Real-Time Reactions, Polling, Cases, Other Protocols, MQTT Telemetry Transport, Extensible Messaging and Presence Protocol, Constrained Application Protocol.</p> <p><b>IV. Techniques for Writing Embedded Code:</b> Memory Management, Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries, Debugging.</p>	<p>16</p> 



	<p>Making the Most of Your RAM, Performance and Battery Life, Libraries, Debugging.</p> <p><b>Business Models: A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models, Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, like a Percentage, Finding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Loan Startups.</b> (UNIT TEST Taken, Assignment Given)</p>		
September	<p><b>V. Moving to Manufacture: What Are You Producing?</b> Designing Kits, Designing Printed circuit boards, Software Choices, The Design Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards, Assembly, Testing, Mass Producing the Case and Other Fixtures, Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Commitment, <b>Ethics: Characterizing the Internet of Things, Privacy, Control, Dismantling Control, Crowdsourcing, Environment, Physical Thing, Electronics, Internet Service: Solutions, The Internet of Things as Part of the Solution, Customer Optimism, The Open Internet of Things Definition.</b></p>	<p><b>V. Moving to Manufacture: What Are You Producing?</b> Designing Kits, Designing Printed circuit boards, Software Choices, The Design Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards, Assembly, Testing, Mass Producing the Case and Other Fixtures, Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Commitment, <b>Ethics: Characterizing the Internet of Things, Privacy, Control, Dismantling Control, Crowdsourcing, Environment, Physical Thing, Electronics, Internet Service: Solutions, The Internet of Things as Part of the Solution, Customer Optimism, The Open Internet of Things Definition.</b> (Syllabus Done)</p>	10
October	<p>Revision Lectures, Solving previous year question papers.</p>	<p>Revision Lectures Done, Solved previous year question papers.</p>	04
<p>Signature of Coordinator:</p> 		<p>Signature of Subject Teacher:</p> 	



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**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>		B.Sc. Information Technology	
<b>Name of Teacher</b>		Mrs. Sneha Gokarnkar	
Class: T.Y.B.Sc. IT - Semester- 04			
Subject: Internet of Things Practical			
Subject Code: ISEESP2			
No. of Practicals Allotted per week: 02			
No. Of Practicals Covered per Semester: 24 (4 Extra Sessions)			
No. Of Practicals Allotted per Semester: 20			
Month of teaching	Topic Proposed	Topic Covered	No. of Practicals per topic
July	1. Starting Raspbian OS, Familiarising with Raspberry Pi Components and interface, Connecting to ethernet, Mouse, USB. 2. Controlling 4 LED's using Telegram app and Raspberry Pi 3. Displaying different LED patterns with Raspberry Pi. 4. Create a Raspberry Pi telegram bot and share files and text.	1. Starting Raspbian OS, Familiarising with Raspberry Pi Components and interface, Connecting to ethernet, Mouse, USB. 2. Controlling 4 LED's using Telegram app and Raspberry Pi 3. Displaying different LED patterns with Raspberry Pi 4. Create a Raspberry Pi telegram bot and share files and text.	8
August	5. Controlling single LED's using Telegram app and Raspberry Pi 6. Displaying Time over 4-Digit 7-Segment Display using Raspberry Pi 7. Raspberry Pi Based Oscilloscope	5. Controlling single LED's using Telegram app and Raspberry Pi 6. Displaying Time over 4-Digit 7-Segment Display using Raspberry Pi 7. Raspberry Pi Based Oscilloscope	6
October	Revision Practical	4 extra sessions on revision practicals conducted.	4
<b>Signature of Coordinator</b> 		<b>Signature of Subject Teacher</b> 	




**Tracking Plan and Implementation Record (2023-24)**

<b>Department</b>		B.Sc. Information Technology	
<b>Name of teacher</b>		Mr. Sunil Tripathi	
<b>Class: T.Y. B.Sc. IT Semester - V</b> <b>Subject: Advanced Web Programming</b> <b>Subject Code: USIT204</b>			
No. of lectures Allotted per week: 02 No. Of lectures Covered per Semester: 87 (27 Extra Semioff) No. Of lectures Allotted per Semester: 60			
<b>Month of teaching</b>	<b>Topic Proposed</b>	<b>Topic Un-Covered with reason</b>	<b>No. of lectures</b>
June	Introducing .NET, The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library, The C# Language, C# Language Basics, Variables and Data Types, Variable Operators, Object-Based Manipulation, Conditional Logic, Loops, Methods, Types, Objects, and Namespaces, The Basics About Classes, Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.	Introducing .NET, The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library, The C# Language, C# Language Basics, Variables and Data Types, Variable Operators, Object-Based Manipulation, Conditional Logic, Loops, Methods, Types, Objects, and Namespaces, The Basics About Classes, Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.	16
July	<b>Web Form Fundamentals:</b> Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application, <b>Form Controls:</b> Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The	<b>Web Form Fundamentals:</b> Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application, <b>Form Controls:</b> Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and	28



	<p>Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, WebSite Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control</p> <p><b>Error Handling, Logging, and Tracing:</b> Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing</p>	<p>AppFramework, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, WebSite Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control</p> <p><b>Error Handling, Logging, and Tracing:</b> Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing</p>	
App	<p><b>State Management:</b> Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies, Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options: Styles, Themes, and Master Pages: Styles, Themes, Master Page Basics, Advanced Master Pages.</p>	<p><b>State Management:</b> Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies, Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options: Styles, Themes, and Master Pages: Styles, Themes, Master Page Basics, Advanced Master Pages.</p>	28
App	<p><b>ADO.NET Fundamentals:</b> Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access, Data Binding: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, 12-11 The Data Controls: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DataView and FormView</p>	<p><b>ADO.NET Fundamentals:</b> Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access, Data Binding: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, 12-11 The Data Controls: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DataView and FormView</p>	18



<p>Course no</p>	<p>XML: XML Explained, The XML Classes, XML Validation, XML Display and Transform. Security Fundamentals: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. ASP.NET AJAX: Understanding Ajax, Using Partial Refreshes, Using Program Notifications, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.</p>	<p>XML: XML Explained, The XML Classes, XML Validation, XML Display and Transform. Security Fundamentals: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. ASP.NET AJAX: Understanding Ajax, Using Partial Refreshes, Using Program Notifications, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.</p>	<p>7</p>
<p>Signature of Coordinator: </p>		<p>Signature of Subject Teacher: _____</p>	



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 DR. V. BATHAKRISHNAN MARG, ANDHRI (E), MUMBAI - 400 099

**Teaching Plan and Implementation Record (2023-24)**



<b>Department</b>	B.Sc. Information Technology
<b>Name of Teacher</b>	Mr. Anand Tripathi
<b>Class: T.Y.B.Sc. II Semester- B5</b>	
<b>Subject: Advanced Web Programming</b>	
<b>Subject Code: UET35P2</b>	
<b>No. of Practicals Allotted per week: 02</b>	
<b>No. Of Practicals Covered per Semester: 13 (3 Extra Session)</b>	
<b>No. Of Practicals Allotted per Semester: 26</b>	

Month of teaching	Topic Proposed	Topic Covered	No. of Practicals per topic
July	<p><b>1. Working with basic C# and ASP .NET</b></p> <p>a. Create an application that obtains first or values from the user and displays the product.</p> <p>b. Create an application to demonstrate string operations.</p> <p>2. Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.</p> <p>d. Create an application to demonstrate following operations</p> <p>i. Generate Fibonacci series. ii. Test for prime numbers.</p> <p>iii. Test for vowels. iv. Use of foreach loop with arrays.</p> <p>v. Reverse a number and find sum of digits of a number.</p> <p><b>2. Working with Object Oriented C# and ASP .NET</b></p> <p>a. Create simple application to perform following operations</p> <p>i. Finding factorial Value ii. Money Conversion</p> <p>iii. Quadratic Equation iv. Temperature Conversion.</p> <p>b. Create simple application to demonstrate use of following concepts</p> <p>i. Function Overloading ii. Inheritance (all types)</p>	<p><b>1. Working with basic C# and ASP .NET</b></p> <p>a. Create an application that obtains first or values from the user and displays the product.</p> <p>b. Create an application to demonstrate string operations.</p> <p>c. Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.</p> <p>d. Create an application to demonstrate following operations</p> <p>i. Generate Fibonacci series. ii. Test for prime numbers.</p> <p>iii. Test for vowels. iv. Use of foreach loop with arrays.</p> <p>v. Reverse a number and find sum of digits of a number.</p> <p><b>2. Working with Object Oriented C# and ASP .NET</b></p> <p>a. Create simple application to perform following operations</p> <p>i. Finding factorial Value ii. Money Conversion</p> <p>iii. Quadratic Equation iv. Temperature Conversion.</p> <p>b. Create simple application to demonstrate use of following concepts</p> <p>i. Function Overloading ii. Inheritance (all types)</p>	13



	<p>iii. Customizer overloading re-interfaces</p> <p>c. Create simple application to demonstrate use of following concepts</p> <p>i. Using Delegates and events ii. Exception handling</p> <p><b>J. Working with Web Forms and Controls</b></p> <p>a. Create a simple web page with various server controls to demonstrate setting and use of their properties. (Example: AutoPostBack)</p> <p>b. Demonstrate the use of Calendar control to perform following operations.</p> <p>a) Display messages in a calendar control b) Display vacation in a calendar control</p>	<p>ii. Customizer overloading re-interfaces</p> <p>c. Create simple application to demonstrate use of following concepts</p> <p>i. Using Delegates and events ii. Exception handling</p> <p><b>J. Working with Web Forms and Controls</b></p> <p>a. Create a simple web page with various server controls to demonstrate setting and use of their properties. (Example: AutoPostBack)</p> <p>b. Demonstrate the use of Calendar control to perform following operations.</p> <p>a) Display messages in a calendar control b) Display vacation in a calendar control</p>	
August	<p>c) Selected day in a calendar control using style d) Difference between two calendar dates</p> <p>a. Demonstrate the use of Treeview control perform following operations.</p> <p>a) Treeview control and details b) Treeview operations</p> <p><b>K. Working with Form Controls</b></p> <p>a. Create a Registration form to demonstrate use of various Validation controls.</p> <p>b. Create Web Form to demonstrate use of AdRotator Control.</p> <p>c. Create Web Form to demonstrate use User Controls.</p>	<p>c) Selected day in a calendar control using style d) Difference between two calendar dates</p> <p>a. Demonstrate the use of Treeview control perform following operations.</p> <p>a) Treeview control and details b) Treeview operations</p> <p><b>K. Working with Form Controls</b></p> <p>a. Create a Registration form to demonstrate use of various Validation controls.</p> <p>b. Create Web Form to demonstrate use of AdRotator Control.</p> <p>c. Create Web Form to demonstrate use User Controls.</p>	4
September	<p><b>L. Working with Navigation, Beautification and Master page.</b></p> <p>a. Create Web Form to demonstrate use of Website Navigation controls and Site Map.</p> <p>b. Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.</p> <p>c. Create a web application to demonstrate various states of ASP.NET Pages.</p>	<p><b>L. Working with Navigation, Beautification and Master page.</b></p> <p>a. Create Web Form to demonstrate use of Website Navigation controls and Site Map.</p> <p>b. Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.</p> <p>c. Create a web application to demonstrate various states of ASP.NET Pages.</p>	5
October	<p><b>M. Working with Database</b></p> <p>a. Create a web application find data in a multiple tables by querying in another table.</p>	<p><b>M. Working with Database</b></p> <p>a. Create a web application find data in a multiple tables by querying in another table.</p>	



<p>b. Create a web application to display records by using database.</p> <p>c. Demonstrate the use of DataList link control.</p> <p><b>7. Working with Database</b></p> <p>a. Create a web application to display DataBinding using dropdownlist control.</p> <p>b. Create a web application for to display the phone no of an author using database.</p> <p>c. Create a web application for inserting and deleting record from a database. (Using ExecuteNonQuery)</p> <p><b>8. Programs to create and use DDL.</b></p>	<p>b. Create a web application to display records by using database.</p> <p>a. Demonstrate the use of DataList link control.</p> <p><b>7. Working with Database</b></p> <p>a. Create a web application to display DataBinding using dropdownlist control.</p> <p>b. Create a web application for to display the phone no of an author using database.</p> <p>c. Create a web application for inserting and deleting record from a database. (Using ExecuteNonQuery)</p> <p><b>8. Programs to create and use DDL.</b></p>	
<p>Signature of Coordinator:</p> 	<p>Signature of Subject Teacher:</p> 	



**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	B.Sc. Information Technology
<b>Name of teacher</b>	Mrs. Rutim V. Jagdale
<b>Class:</b> T.Y. B.Sc. IT Semester- V <b>Subject:</b> Linux System Administration <b>Subject Code:</b> UST1505	


No. of lectures Allotted per week: 05  
 No. of lectures Covered per semester: 62  
 No. of lectures Allotted per Semester: 60

Mon th of teaching	Topic Proposed	Topic Covered	No. of lectures
June	<p><b>Introduction to Red Hat Enterprise Linux:</b> Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.</p> <p><b>Command Line:</b> Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files</p> <p><b>System Administration Tasks:</b> Performing Job Management Tasks, System and Process Monitoring and Management, Managing Processes with ps, Sending Signals to Processes with the kill Command, using top to Show Current System Activity, Managing Process Schedulers, Scheduling Jobs, Mounting Devices, Working with Links, Creating Backups, Managing Printers, Setting Up System Logging, Setting Up Rsyslog, Common Log Files, Setting Up Logrotate</p> <p><b>Managing Software:</b> Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages.</p> <p><b>Configuring and Managing Storage:</b> Understanding Partitions and Logical Volumes, Creating Partitions, Creating File Systems, File Systems Overview, Creating</p>	<p><b>Introduction to Red Hat Enterprise Linux:</b> Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.</p> <p><b>Command Line:</b> Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files</p> <p><b>System Administration Tasks:</b> Performing Job Management Tasks, System and Process Monitoring and Management, Managing Processes with ps, Sending Signals to Processes with the kill Command, using top to Show Current System Activity, Managing Process Schedulers, Scheduling Jobs, Mounting Devices, Working with Links, Creating Backups, Managing Printers, Setting Up System Logging, Setting Up Rsyslog, Common Log Files, Setting Up Logrotate</p> <p><b>Managing Software:</b> Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software</p>	18






	<p>File Systems, Changing File System Properties, Checking the File System Integrity, Mounting File Systems Automatically Through <code>fstab</code>, Working with Logical Volumes, Creating Logical Volumes, Resizing Logical Volumes, Working with Snapshots, Replacing Failing Storage Devices, Creating Swap Space, Working with Encrypted Volumes</p>	<p>with <code>Yum</code>, Querying Software, Extracting Files from RPM Packages, <b>Configuring and Managing Storage</b>: Understanding Partitions and Logical Volumes, Creating Partitions, Creating File Systems, File Systems Overview, Creating File Systems, Changing File System Properties, Checking the File System Integrity, Mounting File Systems Automatically Through <code>fstab</code>, Working with Logical Volumes, Creating Logical Volumes, Resizing Logical Volumes, Working with Snapshots, Replacing Failing Storage Devices, Creating Swap Space, Working with Encrypted Volumes</p>	
July	<p><b>Connecting to the Network</b>: Understanding NetworkManager, Working with Services and Profiles, Configuring the Network with NetworkManager, Working with <code>system-config-network</code>, NetworkManager Configuration Files, Network Service Scripts, Networking from the Command Line, Troubleshooting Networking, Setting Up IPv6, Configuring SSH, Enabling the SSH Server, Using the SSH Client, Using PuTTY on Windows Machines, Configuring Key-Based SSH Authentication, Using Graphical Applications with SSH, Using SSH Port Forwarding, Configuring VNC Server Access</p>	<p><b>Connecting to the Network</b>: Understanding NetworkManager, Working with Services and Profiles, Configuring the Network with NetworkManager, Working with <code>system-config-network</code>, NetworkManager Configuration Files, Network Service Scripts, Networking from the Command Line, Troubleshooting Networking, Setting Up IPv6, Configuring SSH, Enabling the SSH Server, Using the SSH Client, Using PuTTY on Windows Machines, Configuring Key-Based SSH Authentication, Using Graphical Applications with SSH, Using SSH Port Forwarding, Configuring VNC Server Access</p>	8
Aug oct	<p><b>Working with Users, Groups, and Permissions</b>: Managing Users and Groups, Commands for User Management, Managing Passwords, Modifying and Deleting User Accounts, Configuration Files, Creating Groups, Using Graphical Tools for User, and Group Management, Using External Authentication Sources, the Authentication Process, <code>sssd</code>, <code>nsswitch</code>, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, Working with Access Control</p>	<p><b>Working with Users, Groups, and Permissions</b>: Managing Users and Groups, Commands for User Management, Managing Passwords, Modifying and Deleting User Accounts, Configuration Files, Creating Groups, Using Graphical Tools for User, and Group Management, Using External Authentication Sources, the Authentication Process, <code>sssd</code>, <code>nsswitch</code>, Pluggable Authentication Modules, Managing Permissions, the Role</p>	11



	<p>Lists, Setting Default Permissions with umask, Working with Attributes</p> <p><b>Securing Server with iptables</b>  Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT</p> <p><b>Setting Up Cryptographic Services</b>  Introducing SSL, Proof of Authenticity, The Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files</p> <p><b>Configuring Server for File Sharing</b>  What is NFS? Advantages and Disadvantages of NFS, Configuring NFSd, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Autofs, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services</p>	<p>of Ownership, Basic Permissions, Read, Write, and Execute, Advanced Permissions, Working with Access Control Lists, Setting Default Permissions with umask, Working with Attributes</p> <p><b>Securing Server with iptables</b>  Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT</p> <p><b>Configuring Server for File Sharing</b>  What is NFS? Advantages and Disadvantages of NFS, Configuring NFSd, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Autofs, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services</p> <p><b>Setting Up Cryptographic Services</b>  Introducing SSL, Proof of Authenticity, The Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files</p>	
Sept	<p><b>Configuring DNS and DHCP</b>  Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server</p> <p><b>Setting Up a Mail Server</b>  Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mail, Basic Configuration,</p>	<p><b>Configuring DNS and DHCP</b>  Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server</p> <p><b>Setting Up a Mail Server</b>  Using the Message Transfer Agent, the Mail Delivery Agent, the Mail</p>	<p>12</p> 

8

	<p>Internet Configuration, Configuring Dovecot for POP and IMAP</p> <p><b>Configuring Apache on Red Hat Enterprise Linux:</b> Configuring the Apache Web Server, creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with Password, Configuring LDAP Authentication, Setting Up MySQL</p> <p>Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with Password, Configuring LDAP Authentication, Setting Up MySQL</p> <p><b>High-Availability Clustering:</b> High-Availability Clustering, The Workings of High Availability, High-Availability Requirements, Red Hat High-Availability Add-on Software, Components, Configuring Cluster-Based Services, Setting Up Bonding, Setting Up Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Configuring Additional Cluster Properties, Configuring a Quorum Disk, Setting Up Fencing, Creating Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File</p>	<p>User Agent, Setting Up Postfix as an SMTP Server, Working with Mail, Basic Configuration, Internet Configuration</p> <p>Configuring Dovecot for POP and IMAP</p> <p><b>Configuring Apache on Red Hat Enterprise Linux:</b> Configuring the Apache Web Server, creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with Password, Configuring LDAP Authentication, Setting Up MySQL</p> <p>Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with Password, Configuring LDAP Authentication, Setting Up MySQL</p> <p><b>High-Availability Clustering:</b> High-Availability Clustering, The Workings of High Availability, High-Availability Requirements, Red Hat High-Availability Add-on Software, Components, Configuring Cluster-Based Services, Setting Up Bonding, Setting Up Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Configuring Additional Cluster Properties, Configuring a Quorum Disk, Setting Up Fencing, Creating Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File</p>	
<p>Objective</p>	<p><b>Systems Setting Up an Installation Server:</b> Configuring a Network Server as an Installation Server, Setting Up a TFTP and DHCP Server for PXE Boot, Installing the TFTP Server, Configuring DHCP for PXE Boot, Creating the TFTP PXE Server Content, creating a Kickstart File, Using a Kickstart File to Perform an Automated Installation, Modifying the Kickstart File with <code>system-config-kickstart</code>, Making Manual Modifications to the Kickstart File</p>	<p><b>Systems Setting Up an Installation Server:</b> Configuring a Network Server as an Installation Server, Setting Up a TFTP and DHCP Server for PXE Boot, Installing the TFTP Server, Configuring DHCP for PXE Boot, Creating the TFTP PXE Server Content, creating a Kickstart File, Using a Kickstart File to Perform an Automated Installation</p>	<p>7</p> 

<p><b>Introducing Bash Shell Scripting</b>          Introduction, Elements of a Good Shell Script, Executing the Script, Working with Variables and Input, Understanding Variables, Variables, Subshells, and Sourcing, Working with Script Arguments, Asking for Input, Using Command Substitution, Substitution Operators, Changing Variable Content with Pattern Matching, Performing Calculations, Using Control Structures, Using if...then...else, Using case, Using while, Using until, Using for, Configuring booting with GRUB.</p>	<p>Modifying the Kickstart file with <code>system-config-kickstart</code>, Making Manual Modifications to the Kickstart File</p> <p><b>Introducing Bash Shell Scripting</b>          Introduction, Elements of a Good Shell Script, Executing the Script, Working with Variables and Input, Understanding Variables, Variables, Subshells, and Sourcing, Working with Script Arguments, Asking for Input, Using Command Substitution, Substitution Operators, Changing Variable Content with Pattern Matching, Performing Calculations, Using Control Structures, Using if...then...else, Using case, Using while, Using until, Using for, Configuring booting with GRUB.</p>	
<p>Signature of Coordinator:  </p>	<p>Signature of Subject Teacher:  </p>	




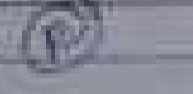
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**Teaching Plan and Implementation Record (2023-24)**

Department		B.Sc. Information Technology	
Name of teacher		Mrs. Rohini V. Jagdale	
Class: T.Y. B.Sc. IT Semester- V Subject: Linux System Administration Practical Subject Code: USIT 5P5			
No. of lectures Allotted per week: 02 No. of lectures Covered per Semester: 16 No. of lectures Allotted per Semester: 16			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures
July	0- Installation of RHEL 8.X 1- Graphical User Interface and Command Line Interface and Processes a) Exploring the Graphical Desktop b) The Command Line Interface c) Managing Processes 2- Storage Devices and Links, Backup and Repository a) Working with Storage Devices and Links b) Making a Backup c) Creating a Repository 3- Working with RPM Storage and Networking a) Using Query Options b) Extracting Files From RPMs 4- Configuring and Managing Storage a) Connecting to the Network 4- Working with Users, Groups, and Permissions 5- Configuring Server for File Sharing a) Configuring NFS Server and Client	0- Installation of RHEL 8.X 1- Graphical User Interface and Command Line Interface and Processes a) Exploring the Graphical Desktop b) The Command Line Interface c) Managing Processes 2- Storage Devices and Links, Backup and Repository a) Working with Storage Devices and Links b) Making a Backup c) Creating a Repository 3- Working with RPM Storage and Networking a) Using Query Options b) Extracting Files From RPMs c) Configuring and Managing Storage d) Connecting to the Network 4- Working with Users, Groups, and Permissions 5- Configuring Server for File Sharing a) Configuring NFS Server and Client	10
August	b) Configuring Samba c) Configuring FTP	b) Configuring Samba c) Configuring FTP	4
Sept.	7- Web Server a) Configuring Apache on Red Hat Enterprise Linux b) Writing a Script to Monitor Activity on the Apache Web Server	7- Web Server a) Configuring Apache on Red Hat Enterprise Linux	2



*Handwritten initials/signature*

	<p>a) Using the select Command        B. Shell Scripts and High Availability Clustering        a) Writing Shell Scripts        b) Configuring Booting with GRUB        4. Firewall and Cryptographic services        a) Securing Server with iptables        b) Setting Up Cryptographic Services        B. Shell Scripts and High Availability Clustering        a. Writing Shell Scripts        b. Configuring Booting with GRUB        c. Configuring High Availability Clustering        10. Setting Up an Installation Server        a. Configuring Network Server as an Installation Server        b. Setting Up a TFTP and DHCP Server        for PXE-Boot</p>	<p>b) Writing a Script to Monitor Activity on the Apache Web Server        a) Using the select Command        B. Shell Scripts and High Availability Clustering        a) Writing Shell Scripts        b) Configuring Booting with GRUB        4. Firewall and Cryptographic services        a) Securing Server with iptables        b) Setting Up Cryptographic Services        B. Shell Scripts and High Availability Clustering        a. Writing Shell Scripts        b. Configuring Booting with GRUB</p>	
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



**Teaching Plan and Implementation Record (2022-23)**

<b>Department</b>		B.Sc. Information Technology	
<b>Name of teacher</b>		Ms. Manu Chavhan	
<b>Class:</b> I.Y. B.Sc. II Semester: V <b>Subject:</b> Enterprise Java <b>Subject Code:</b> ISE156			
<b>No. of lectures Allotted per week:</b> 05 <b>No. Of lectures Covered per Semester:</b> 73 (13 extra session) <b>No. Of lectures Allotted per Semester:</b> 60			
Slack of teaching	Topic Proposed	Topic Un-Covered with reason	No. of lectures
3.25.12th onwards	<p>Understanding Java EE: What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server</p> <p>Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers, Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets?</p>	<p>Understanding Java EE: What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server</p> <p>Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers, Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets?</p>	14
8.11.7	<p>What can Servlets do? Servlet API and Lifecycle: Java Servlet API, The Servlet Mechanism, The Servlet Life Cycle, A Simple Welcome Servlet, Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.</p> <p>Working with Databases: What is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example, Request Dispatcher: RequestDispatcher Interface, Methods of RequestDispatcher, RequestDispatcher Application</p> <p>COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page</p> <p>SESSION: What Are Sessions? Lifecycle Of Http Session, Session</p>	<p>What can Servlets do? Servlet API and Lifecycle: Java Servlet API, The Servlet Mechanism, The Servlet Life Cycle, A Simple Welcome Servlet Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.</p> <p>Working with Databases: What is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example Request Dispatcher: RequestDispatcher Interface, Methods of RequestDispatcher, RequestDispatcher Application, COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page</p> <p>SESSION</p>	18



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	<p>Tracking With Servlet API, A Servlet Session Example</p> <p>Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.</p>	<p>What Are Sessions? Lifecycle Of Http Session, Session Tracking With Servlet API, A Servlet Session Example</p> <p>Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.</p>	
AUG	<p>Working With Non-Blocking IO: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp</p> <p>Introduction To Java Server Pages: Why use Java Server Pages? Disadvantages Of JSP, JSP vs Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages</p> <p>Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example</p> <p>Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters to other Actions, Loading a JavaBean, Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language (Unified EL), Expression Language</p> <p>Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriplet Tags? How JSTL Fixes JSP Scriplet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.</p>	<p>Working With Non-Blocking IO: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp</p> <p>Introduction To Java Server Pages: Why use Java Server Pages? Disadvantages Of JSP, JSP vs Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages</p> <p>Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example</p> <p>Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters to other Actions, Loading a JavaBean, Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language (Unified EL), Expression Language</p> <p>Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriplet Tags? How JSTL Fixes JSP Scriplet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.</p>	18
SEPT	<p>Introduction To Enterprise JavaBeans: Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans</p> <p>Getting started with Enterprise JavaBeans: Creating a Web Application, Creating an Enterprise Bean, Creating a Web Client</p>	<p>Introduction To Enterprise JavaBeans: Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans</p> <p>Getting started with Enterprise JavaBeans: Creating a Web Application, Creating an</p>	 <p>19</p>

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	<p>Servlet], Creating a JSP File, Build the Web Application, Running the Web Application.</p> <p>Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateless Session Bean, Example of Singleton Session Bean, Example of Singleton Session Beans, Working with Message Driven Beans, Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.</p>	<p>Enterprise Bean, Creating a Web Client [Servlet], Creating a JSP File, Build the Web Application, Running the Web Application.</p> <p>Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateless Session Bean, Example of Singleton Session Beans, Working with Message Driven Beans: Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.</p>	
	<p><b>INTERCEPTORS:</b> Request And Interceptor, Defining An Interceptor, AnnotatedMethod Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.</p> <p>Persistence, Object Relational Mapping And JPA: What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object Relational Mapping, Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.</p>	<p><b>INTERCEPTORS:</b> Request And Interceptor, Defining An Interceptor, AnnotatedMethod Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.</p> <p>Persistence, Object Relational Mapping And JPA: What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object Relational Mapping, Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.</p>	
08T	<p>Writing JPA Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in MySQL, Creating a Web Application, Adding the Required Library Files, Creating a JavaBean Class, Creating Persistence Unit (Persistence.xml), Creating JSPs, The JPA Application Structure, Running The JPA Application.</p> <p>Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The Application, Components of</p>	<p>Writing JPA Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in MySQL, Creating a Web Application, Adding the Required Library Files, Creating a JavaBean Class, Creating Persistence Unit (Persistence.xml), Creating JSPs, The JPA Application Structure, Running The JPA Application.</p> <p>Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The</p>	06



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	<p> <b>Hibernate: Architecture of Hibernate, How Hibernate Works?</b>  <b>Writing Hibernate Application:</b>            Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in MySQL, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPs, Running The Hibernate Application         </p>	<p> <b>Application, Components of Hibernate, Architecture of Hibernate, How Hibernate Works?</b>  <b>Writing Hibernate Application:</b>            Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in MySQL, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPs, Running The Hibernate Application.         </p>	
<p>Signature of Coordinator:</p> 	<p>Signature of Subject Teacher:</p> 		



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 SMITH L.J.J. & SIRMAY COLLEGE OF ARTS, SCIENCE &  
 COMMERCE  
 DR. S. RADHAKRISHNAN MAHIL, ANDHRA PRADESH, MUMBAI - 400 058


**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	B.Sc. Information Technology
<b>Name of Teacher</b>	Ms. Merisa Ghoshgupta
<b>Class/B.Sc. IT Semester- 05</b>	<b>Subject: Enterprise Java Practical</b>
<b>Subject Code: UET15Pa</b>	
<b>No. of Practicals Allotted per week: 02</b>	
<b>No. Of Practicals Covered per Semester: 18</b>	
<b>No. Of Practicals Allotted per Semester: 20</b>	



Month of teaching	Topic Prepared	Topic Covered	No. of Practicals per topic
July	<p><b>1. Implement the following Simple Servlet applications</b></p> <p>a. Create a simple calculator application using servlet.</p> <p>b. Create a servlet for a login page. If the username and password are correct then it says message "Hello -username" else a message "login failed"</p> <p>c. Create a registration servlet in Java using JDBC. Accept the details such as Username, Password, Email, and Country from the user using HTML Form and store the registration details in the database.</p> <p><b>2. Implement the following Servlet applications with Cookies and Sessions</b></p> <p>a. Using Request Dispatcher Interface create a Servlet which will validate the password entered by the user, if the user has entered "Servlet" as password, then he will be forwarded to Welcome Servlet else the user will stay on the index.html page and an error message will be displayed.</p> <p>b. Create a servlet that uses Cookies to store the number of times a user has visited servlet.</p> <p>c. Create a servlet demonstrating the use of session creation and destruction. Also check whether the user has visited this page first time or has visited earlier also using session.</p>	<p><b>1. Implement the following Simple Servlet applications.</b></p> <p>a. Create a simple calculator application using servlet.</p> <p>b. Create a servlet for a login page. If the username and password are correct then it says message "Hello -username" else a message "login failed"</p> <p>c. Create a registration servlet in Java using JDBC. Accept the details such as Username, Password, Email, and Country from the user using HTML Form and store the registration details in the database.</p> <p><b>2. Implement the following Servlet applications with Cookies and Sessions.</b></p> <p>a. Using Request Dispatcher Interface create a Servlet which will validate the password entered by the user, if the user has entered "Servlet" as password, then he will be forwarded to Welcome Servlet else the user will stay on the index.html page and an error message will be displayed.</p> <p>b. Create a servlet that uses Cookies to store the number of times a user has visited servlet.</p> <p>c. Create a servlet demonstrating the use of session creation and destruction. Also check</p>	18



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	<p><b>2. Implement the Servlet IO and File applications.</b></p> <p>a. Create a Servlet application to upload and download a file</p> <p>b. Develop simple Servlet Question Answer Application using Database.</p> <p>c. Create simple Servlet application to demonstrate Non-Blocking Read Operation</p>	<p>whether the user has visited this page first time or has visited earlier and using session.</p>	
August	<p><b>3. Implement the following JSP applications.</b></p> <p>a. Develop a simple JSP application to display values obtained from the use of various objects of various types.</p> <p>b. Develop a simple JSP application to pass values from one page to another with validations. (Gender, age, sex, hidden-checkbox, email-id, gender-radio button)</p> <p>c. Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC.</p> <p><b>4. Implement the following JSP JSTL and EL Applications.</b></p> <p>a. Create an html page with fields emp, name, age, dept, salary. Now on submit this data to a JSP page which will update the employee table of database with matching emp.</p> <p>b. Create a JSP page to demonstrate the use of Expression language.</p> <p>c. Create a JSP application to demonstrate the use of JSTL.</p>	<p><b>3. Implement the Servlet IO and File applications.</b></p> <p>a. Create a Servlet application to upload and download a file</p> <p>b. Develop simple Servlet Question Answer Application using Database.</p> <p>c. Create simple Servlet application to demonstrate Non-Blocking Read Operation</p>	
September	<p><b>5. Implement the following EJB Applications.</b></p> <p>a. Create a Currency Converter application using EJB.</p> <p><b>6. Implement the following EJB applications with different types of Beans.</b></p> <p>a. Develop simple EJB application to demonstrate Servlet Hit count using Singleton Session Beans.</p>	<p><b>4. Implement the following JSP applications.</b></p> <p>a. Develop a simple JSP application to display values obtained from the use of various objects of various types.</p> <p>b. Develop a simple JSP application to pass values from one page to another with validations. (Gender, age, sex, hidden-checkbox, email-id, gender-radio button).</p> <p>c. Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC.</p> <p><b>5. Implement the following JSP JSTL and EL Applications.</b></p> <p>a. Create an html page with fields emp, name, age, dept, salary. Now on submit this data to a JSP page which will update the employee table of database with matching emp.</p> <p>b. Create a JSP page to demonstrate the use of Expression language.</p> <p>c. Create a JSP application to demonstrate the use of JSTL.</p>	
			

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	<p>b. Develop simple visitor Statistics application using Message Driven Bean ( Stateless Session Bean)</p> <p><b>8. Implement the following JPA applications.</b></p> <p>a. Develop a simple Inventory Application Using JPA.</p> <p>b. Develop a Gambleball Application Using JPA</p> <p>c. Create simple JPA application to store and retrieve Book details</p>	<p>b. Develop simple visitor Statistics application using Message Driven Bean ( Stateless Session Bean)</p> <p><b>8. Implement the following JPA applications.</b></p> <p>a. Develop a simple Inventory Application Using JPA.</p> <p>b. Develop a Gambleball Application Using JPA.</p> <p>c. Create simple JPA application to store and retrieve Book details</p>	
<p>Signature of Coordinator:</p> 	<p>Signature of Subject Teacher:</p> 		



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**LAXMI CHARITABLE TRUST'S**  
**SHREELALBADEVI COLLEGE OF ARTS, SCIENCE &**  
**COMMERCE**  
 DR. S. RADHAKRISHNAN MAHAR, ANSHTRI (1), MUMBAI - 400 009

**Teaching Plan and Implementation Record (2023-24)**

<b>Department</b>	B.Sc. Information Technology
<b>Name of Teacher</b>	Mrs. Sneha Lakshminar, Mrs. Rohini V. Jagdale, Ms. Anurag Ghosevaghina, Mr. Sumit Tripathi
<b>Class: T.Y.B.Sc. IT Semester- 05</b> <b>Subject Code: ISIT501</b>	<b>Subject: Project Dissertation - 15</b>
<b>No. of Practicals Allotted per week: 02</b> <b>No. Of Practicals Covered per Semester: 18</b> <b>No. Of Practicals Allotted per Semester: 18</b>	

Month of teaching	Topic Proposed	Topic Covered	No. of Practicals per topic
June	<b>1.1 PROJECT REPORT:</b> Title Page Original Copy of the Approved Proforma of the Project Proposal Certificate of Authentication with Role and Responsibility Form Abstract Acknowledgement Table of Contents Table of Figures	<b>1.1 PROJECT REPORT:</b> Title Page Original Copy of the Approved Proforma of the Project Proposal Certificate of Authentication with Role and Responsibility Form. Abstract Acknowledgement Table of Contents Table of Figures	4
July	<b>CHAPTER 1: INTRODUCTION</b> 1.1 Background 1.2 Objectives 1.3 Purpose, Scope, and Applicability 1.3.1 Purpose 1.3.2 Scope 1.3.3 Applicability 1.4 Achievements 1.5 Organisation of Report <b>CHAPTER 2: SURVEY OF TECHNOLOGIES</b>	<b>CHAPTER 1: INTRODUCTION</b> 1.1 Background 1.2 Objectives 1.3 Purpose, Scope, and Applicability 1.3.1 Purpose 1.3.2 Scope 1.3.3 Applicability 1.4 Achievements 1.5 Organisation of Report <b>CHAPTER 2: SURVEY OF TECHNOLOGIES</b>	6
August	<b>CHAPTER 3: REQUIREMENTS AND ANALYSIS</b> 3.1 Problem Definition 3.2 Requirements Specification 3.3 Planning and Scheduling 3.4 Software and Hardware Requirements 3.5 Preliminary Product Description 3.6 Conceptual Models	<b>CHAPTER 3: REQUIREMENTS AND ANALYSIS</b> 3.1 Problem Definition 3.2 Requirements Specification 3.3 Planning and Scheduling 3.4 Software and Hardware Requirements 3.5 Preliminary Product Description	2



		1.6 Conceptual Models	
September	<p>4.2.2 Data Integrity and Constraints  4.3 Procedural Design  4.3.1 Logic Diagrams  4.3.2 Data Structures  4.3.3 Algorithms Design  4.4 User Interface design  4.5 Security Issues  4.6 Test Cases Design</p> <p>The documentation should use tools like UML, Visio for windows, Rational Rose for design as part of Software Project Management Practical Course. The documentation should be spiral bound for semester V.</p>	<p>4.2.2 Data Integrity and Constraints  4.3 Procedural Design  4.3.1 Logic Diagrams  4.3.2 Data Structures  4.3.3 Algorithms Design  4.4 User interface design  4.5 Security Issues  4.6 Test Cases Design</p> <p>The documentation should use tools like UML, Visio for windows, Rational Rose for design as part of Software Project Management Practical Course. The documentation should be spiral bound for semester V.</p>	
Signature of Coordinator:		Signature of Subject Teacher:	



Department	B.Sc. IT		
Name of teacher	Ms. Marina Ghemawat		
Class / Y.B.Sc. IT Semester / In	Subject: Software Quality Assurance Subject Code: USIT601		
Total lectures Allotted per week: 04	No. Of lectures Covered per Semester: 13		
No. Of lectures Allotted per Semester: 60			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	<p><b>Introduction to Quality:</b> Historical Perspective of Quality, "What is Quality?" (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continuous (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools, Software Quality Introduction, Components of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organization Culture, Characteristics of Software, Software Development Process.</p> <p>Types of Products, Schemas of Criticality Definitions, Problematic Areas of Software Development Life Cycle, Software Quality Management, Why Software Has Defects? Processes Related to Software Quality, Quality Management System Structure, Pillary of Quality Management System, Important Aspects of Quality Management.</p>	<p><b>Introduction to Quality:</b> Historical Perspective of Quality, "What is Quality?" (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continuous (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools, Software Quality Introduction, Components of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organization Culture, Characteristics of Software, Software Development Process.</p>	<p>Semester lectures commenced from 18th Dec. 2023 01</p>
January	<p><b>Fundamentals of testing:</b> Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing, Historical</p>	<p>Types of Products, Schemas of Criticality Definitions, Problematic Areas of Software Development Life Cycle, Software Quality Management, Why</p>	03



	<p>Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench, Important Features of Testing Process, Misconceptions About Testing, Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods, Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy, Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing</p>	<p>Software Has Defects? Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management</p> <p><b>Fundamentals of testing:</b> Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing, Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench, Important Features of Testing Process, Misconceptions About Testing, Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods, Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy, Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing</p>	
February	<p><b>Unit Testing: Boundary Value Testing: Normal Boundary Value Testing, Robust Boundary Value Testing, Worst-Case Boundary Value Testing, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing, Equivalence Class Testing: Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations</b></p>	<p>Unit Testing: Boundary Value Testing: Normal Boundary Value Testing, Robust Boundary Value Testing, Worst-Case Boundary Value Testing, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing, Equivalence Class Testing: Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations</p> <p>Decision Table-Based Testing: Decision Tables, Decision Table Techniques</p>	11





	<p><b>Decision Table-Based Testing:</b> Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations.</p> <p><b>Path Testing:</b> Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations, Data Flow Testing, Defined-Use Testing, Slice-Based Testing, Program Slicing Tools.</p> <p><b>Software Verification and Validation:</b> Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis of Stage Phase, Entities involved in verification, Reviews in testing life cycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation, Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities.</p> <p>V-model Model: Introduction, V-model for software, testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding, VV Model, Critical Roles and Responsibilities.</p> <p><b>Levels of Testing:</b> Introduction, Proposal Testing, Requirements Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub-System Testing, System Testing, Testing Stages.</p>	<p>Cause-and-Effect Graphing, Guidelines and Observations, Path Testing, Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations, Data Flow Testing, Defined-Use Testing, Slice-Based Testing, Program Slicing Tools, Software Verification and Validation: requirement stage.</p> <p>Testing during test planning phase, Testing Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis of Stage Phase, Entities involved in verification, Reviews in testing life cycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation, Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities.</p> <p>V-test Model: Introduction, V-model for software, testing during Proposal stage, Testing during design phase, Testing during coding, VV Model, Critical Roles and Responsibilities.</p> <p>Levels of Testing: Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub-System Testing, System Testing, Testing Stages.</p>	
March	<p><b>Special Tests:</b> Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing, Regression Testing, Error Handling Testing, Manual Support Testing, Inter-system Testing, Control Testing, Smoke Testing, Ad-hoc Testing, Parallel Testing, Executive Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing.</p>	<p><b>Special Tests:</b> Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing, Regression Testing, Error Handling Testing, Manual Support Testing, Inter-system Testing, Control Testing, Smoke Testing, Ad-hoc Testing, Parallel Testing, Executive Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Testing Stages.</p>	75



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	<p>Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph, Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology stage, Object Oriented Application Testing, Testing of Internal Controls, COIS Testing, Client Server Testing, Web Application Testing, Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing</p>	<p>Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph, Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology stage, Object Oriented Application Testing, Testing of Internal Controls, COIS Testing, Client Server Testing, Web Application Testing, Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing</p>	
<p>Signature of Coordinator: </p>	<p>Signature of Subject Teacher: </p>		



**LAXMI CHARITABLE TRUST'S  
SRI THELAKA & SRI M.V. COLLEGE OF ARTS, SCIENCE & COMMERCIAL  
DR. V. RAJAKRISHNAN MAHO, ANTIHILLI, MURKHAL - 500 099**

Teaching Plan and Implementation Record (2023-24)

<b>Department</b>	B.Sc. IT
<b>Name of teacher</b>	Mrs. Indira V. Jagadee
<b>Class / Y. B.Sc. IT Semester- VI</b>	
<b>Subject: Security In Computing</b>	
<b>Subject Code: L517512</b>	
<b>No. of lectures Allotted per week: 05</b>	
<b>No. of lectures Covered per Semester: 18</b>	
<b>No. of lectures Allotted per Semester: 60</b>	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	<b>Information Security Overview:</b> The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls. <b>Risk Analysis:</b> Threat Definition, Types of Attacks, Risk Analysis.	<b>Information Security Overview:</b> The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls. <b>Risk Analysis:</b> Threat Definition, Types of Attacks, Risk Analysis.	3
January	<b>Secure Design Principles:</b> The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense. <b>Authentication and Authorization:</b> Authentication, Authorization. <b>Encryption:</b> A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure, Storage Security, Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices. <b>Database Security:</b> General Database Security Concepts, Understanding Database Security Layers, Understanding Database Level Security, Using Application Security, Database Backup and	<b>Secure Design Principles:</b> The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense. <b>Authentication and Authorization:</b> Authentication, Authorization. <b>Encryption:</b> A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure, Storage Security, Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices. <b>Database Security:</b> General Database Security Concepts, Understanding Database Security Layers, Understanding Database Level Security, Using Application Security, Database Backup and	15



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	<p>Hardware: Keeping Your Servers Up to Date, Database Auditing and Monitoring.</p> <p>Secure Network Design: Introduction to Secure Network Design, Performance, Availability, Security.</p> <p>Network Device Security: Switch and Router Basics, Network Hardening.</p>	<p>Hardware: Keeping Your Servers Up to Date, Database Auditing and Monitoring.</p> <p>Secure Network Design: Introduction to Secure Network Design, Performance, Availability, Security.</p> <p>Network Device Security: Switch and Router Basics, Network Hardening.</p>	
February	<p>Firewalls: Overview, The Evolution of Firewalls, Core Firewall Functions, Additional Firewall Capabilities, Firewall Design.</p> <p>Wireless Network Security: Radio Frequency Security Basics, Data Link Layer Wireless Security Features, Flows, and Threats, Wireless Vulnerabilities and Mitigation, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways.</p> <p>Intrusion Detection and Prevention Systems: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM), Voice over IP (VoIP) and PBX Security: Background, VoIP Components, VoIP Vulnerabilities and Countermeasures, PBX, TDM, Telecom Expense Management.</p>	<p>Firewalls: Overview, The Evolution of Firewalls, Core Firewall Functions, Additional Firewall Capabilities, Firewall Design.</p> <p>Wireless Network Security: Radio Frequency Security Basics, Data Link Layer Wireless Security Features, Flows, and Threats, Wireless Vulnerabilities and Mitigation, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways.</p> <p>Intrusion Detection and Prevention Systems: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM), Voice over IP (VoIP) and PBX Security: Background, VoIP Components, VoIP Vulnerabilities and Countermeasures, PBX, TDM, Telecom Expense Management.</p>	12
March	<p>Operating System Security Models: Operating System Models, Classic Security Models, Reference Models, Trustworthy Computing, International Standards for Operating System Security.</p> <p>Virtual Machines and Cloud Computing: Virtual Machines, Cloud Computing.</p>	<p>Operating System Security Models: Operating System Models, Classic Security Models, Reference Models, Trustworthy Computing, International Standards for Operating System Security.</p> <p>Virtual Machines and Cloud Computing: Virtual Machines, Cloud Computing.</p>	7



Secure Application Design  
Secure Development Lifecycle  
Application Security Practices  
Web Application Security  
Client Application Security  
Remote Administration  
Security: Physical Security  
Classification of Assets  
Physical Vulnerability  
Assessment, Choosing the  
Location for Security, Securing  
Assets, Locks and Entry  
Controls, Physical Intrusion  
Detection.

Secure Application Design  
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Location for Security, Securing  
Assets, Locks and Entry  
Controls, Physical Intrusion  
Detection.

Signature of Coordinator:



Signature of Subject Teacher:



LAXMI CHARITABLE TRUST'S  
 SHRI THE L.J. & SIB M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANDHRA (E), MUMBAI - 400 064  
 Teaching Plan and Implementation Record (2021-24)

Department	B.Sc. IT		
Name of teacher	Mrs. Rohini V. Jagdale		
Class: I.Y. B.Sc. IT Semester: VI			
Subject: Security In Computing Practical			
Subject Code: US11972			
No. of lectures Allotted per week: 04			
No. Of lectures Covered per Semester: 20			
No. Of lectures Allotted per Semester: 20			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	<p>1. Configure Routers.</p> <p>a) OSPF MD5 authentication.</p> <p>b) NTP.</p> <p>c) To log messages to the syslog server.</p> <p>d) To support SSH connections.</p> <p>2. Configure AAA Authentication</p> <p>a) Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA.</p> <p>b) Verify local AAA authentication from the Router console and the PC-A client</p> <p>3. Configuring Extended ACLs</p> <p>a) Configure, Apply and Verify an Extended Named ACL.</p>	<p>1. Configure Routers</p> <p>a) OSPF MD5 authentication.</p> <p>b) NTP.</p> <p>c) To log messages to the syslog server.</p> <p>d) To support SSH connections.</p> <p>2. Configure AAA Authentication</p> <p>a) Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA.</p> <p>b) Verify local AAA authentication from the Router console and the PC-A client</p> <p>3. Configuring Extended ACLs</p> <p>a) Configure, Apply and Verify an Extended Named ACL.</p>	10
February	<p>4. Configuring a Zone-Based Policy Firewall</p> <p>5. Configure IOS Intrusion Prevention System (IPS) Using the CLI</p> <p>a) Enable IOS IPS.</p> <p>b) Modify an IPS signature.</p> <p>6. Layer 2 VLAN Security</p> <p>7. Configure and Verify a Site-to-Site IPsec VPN Using CLI</p> <p>8. Configure IP ACLs to Mitigate Attacks and IPv6 ACLs</p> <p>a) Verify connectivity among devices before firewall configuration.</p> <p>b) Use ACLs to ensure remote access to the routers is</p>	<p>4. Configuring a Zone-Based Policy Firewall</p> <p>5. Configure IOS Intrusion Prevention System (IPS) Using the CLI</p> <p>a) Enable IOS IPS.</p> <p>b) Modify an IPS signature.</p> <p>6. Layer 2 VLAN Security</p> <p>7. Configure and Verify a Site-to-Site IPsec VPN Using CLI</p> <p>8. Configure IP ACLs to Mitigate Attacks and IPv6 ACLs</p> <p>a) Verify connectivity among devices before firewall configuration.</p> <p>b) Use ACLs to ensure remote access to the routers is</p>	10



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available only from  
management station PC-C.  
c) Configure ACLs on S1  
to mitigate attacks.  
d) Configuring IPv6 ACLs

available only from  
management station PC-C.  
e) Configure ACLs on S1  
to mitigate attacks.  
f) Configuring IPv6 ACLs

Signature of Coordinator:



Signature of Subject Teacher:



available only from  
management station P/C  
c) Configure ACLs on to  
mitigate attacks.  
d) Configuring IPsec ACLs

available only from  
management station P/C  
c) Configure ACLs on to  
mitigate attacks.  
d) Configuring IPsec ACLs

Signature of Coordinator



Signature of Subject Teacher



CARNI CHARITABLE TRUST'S  
 SRIETH LALJI & SIRMAY COLLEGE OF ARTS, SCIENCE & COMMERCE,  
 DR. S. RADHAKRISHNAN MARG, ANHURTI (E), MUMBAI - 400 049

Teaching Plan and Implementation Record (2022-23)

Department	B.Sc. IT
Name of teacher	Mr. Samir Trapatil
Class: I.Y.B.Sc. II Semester: 06	
Subject: Business Intelligence	
Subject Code: USC303	
No. of lectures Allotted per week: 04	
No. Of lectures Covered per Semester: 17	
No. Of lectures Allotted per Semester: 10	

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	Business Intelligence Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business Intelligence architectures, Ethics and business intelligence Decision support systems, Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	Business intelligence Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence Decision support systems, Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	1
January	Mathematical models for decision making: Structure of mathematical models, Development of a model, Classes of models Data mining: Definition of data mining, Representation of input data, Data mining process, Analytic methodologies Data preparation: Data validation, Data transformation, Data reduction Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines Clustering: Clustering methods, Partition methods, Hierarchical	Mathematical models for decision making: Structure of mathematical models, Development of a model, Classes of models Data mining: Definition of data mining, Representation of input data, Data mining process, Analytic methodologies Data preparation: Data validation, Data transformation, Data reduction Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines Clustering: Clustering methods, Partition methods, Hierarchical	17





LAXMI CHARITABLE TRUSTS  
 SRIETH L.U.T. & SRM M.V. COLLEGE OF ARTS, SCIENCE & COMMERCIAL STUDIES  
 DR. S. RADHAKRISHNAN MARG, ANDHHERI (E), MUMBAI - 400 069

Teaching Plan and Implementation Record (2023-24)

Department		B.Sc. IT	
Name of teacher		Mr. Suresh Tripathi	
Class: T.Y.B.Sc. IT Semester- 06			
Subject: Business Intelligence			
Subject Code: USIT803			
No. of Lectures Allotted per week: 04			
No. Of lectures Covered per Semester: 17			
No. Of lectures Allotted per Semester: 04			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	Business intelligence: Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	Business intelligence: Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	1
January	Mathematical models for decision making: Structure of mathematical models, Development of a model, Classes of models Data mining: Definition of data mining, Representation of input data, Data mining process, Analysis methodologies Data preparation: Data validation, Data transformation, Data reduction Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines Clustering: Clustering methods, Partition methods, Hierarchical	Mathematical models for decision making: Structure of mathematical models, Development of a model, Classes of models Data mining: Definition of data mining, Representation of input data, Data mining process, Analysis methodologies Data preparation: Data validation, Data transformation, Data reduction Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines Clustering: Clustering methods, Partition methods, Hierarchical	17



	methods, Evaluation of clustering models		
<b>February</b>	<b>Business Intelligence applications:</b> Marketing models, Relational marketing, Sales force management Logistic and production models, Supply chain optimization, Optimization models for logistics planning, Revenue management systems Data development analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	<b>Business Intelligence applications:</b> <b>Marketing models,</b> Relational marketing, Sales force management, Logistic and production models, Supply chain optimization, Optimization models for logistics planning, Revenue management systems Data development analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	<b>19</b>
<b>March</b>	<b>Knowledge Management:</b> Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) in Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management Artificial Intelligence and Expert Systems Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	<b>Knowledge Management:</b> Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) in Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management Artificial Intelligence and Expert Systems Concepts and Definitions of Artificial Intelligence, Artificial Intelligence versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	<b>19</b>
Signature of Coordinator: 		Signature of Subject Teacher: 	



LAXMI CHARITABLE TRUST'S  
SHRI H. G. & SRI M. S. COLLEGE OF ARTS, SCIENCE & COMMERCE  
DR. S. RATHAKRISHNAN MARG, ANANDWADI, ANURAMPAL - 600 068

Teaching Plan and Implementation Record (2021-22)

Department: B.Sc. IT  
Name of teacher: Mr. Senthil Pragasam



Class: T.Y.B.Sc. IT Semester: 06  
Subject: Business Intelligence Practical  
Subject Code: (NTP)

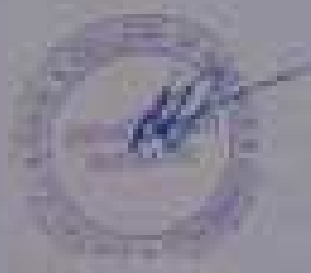
No. of lectures Allotted per week: 03  
No. Of lectures Covered per Semester: 18  
No. Of lectures Allotted per Semester: 20

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	<p>1 Import the legacy data from different sources such as ( Excel, SqlServer, Oracle etc.) and load in the target system. ( You can download sample database such as Adventureworks, Northwind, foodmart etc.)</p> <p>2 Perform the Extraction Transformation and Loading (ETL) process to construct the database in the SqlServer</p>	<p>1 Import the legacy data from different sources such as ( Excel, SqlServer, Oracle etc.) and load in the target system. ( You can download sample database such as Adventureworks, Northwind, foodmart etc.)</p> <p>2 Perform the Extraction Transformation and Loading (ETL) process to construct the database in the SqlServer</p>	4
February	<p>1 a. Create the Data staging area for the selected database.</p> <p>b. Create the cube with suitable dimension and fact tables based on BOCAP, MOLAP and HOLAP model.</p> <p>4 a. Create the ETL map and setup the schedule for execution.</p> <p>b. Execute the MDX queries to extract the data from the datawarehouse.</p> <p>3 a. Import the datawarehouse data in Microsoft Excel and create the Pivot table and Pivot Chart. b. Import the cube in Microsoft Excel and create the Pivot table and Pivot Chart to perform data analysis.</p> <p>4 Apply the what - if Analysis for data visualization. Design and generate necessary reports based on the data warehouse data.</p>	<p>1 a. Create the Data staging area for the selected database</p> <p>b. Create the cube with suitable dimension and fact tables based on BOCAP, MOLAP and HOLAP model.</p> <p>4 a. Create the ETL map and setup the schedule for execution.</p> <p>b. Execute the MDX queries to extract the data from the datawarehouse.</p> <p>3 a. Import the datawarehouse data in Microsoft Excel and create the Pivot table and Pivot Chart. b. Import the cube in Microsoft Excel and create the Pivot table and Pivot Chart to perform data analysis.</p> <p>4 Apply the what - if Analysis for data visualization. Design and generate necessary reports based on the data warehouse data.</p>	8



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<b>SLASH</b>	1 Perform the data classification using classification algorithms. 2 Perform the data clustering using clustering algorithms. 3 Perform the Linear regression on the given data warehouse data. 4 Perform the logistic regression on the given data warehouse data.	1 Perform the data classification using classification algorithms. 2 Perform the data clustering using clustering algorithms. 3 Perform the Linear regression on the given data warehouse data. 4 Perform the logistic regression on the given data warehouse data.	
Signature of Coordinator: 		Signature of Subject Teacher: 	



KANNIYAKANTHAR CHARITABLE TRUSTS  
 SHRI S. L. & SRI M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE,  
 DR. S. RAJAKRISHNAN MARG, ANTIPORE (U), MUMBAI - 400 009  
 Teaching Plan and Implementation Record (2022-23)

Department: B.Sc. IT  
 Name of teacher: Mrs. Sushma Gokarnikar

Class: B.Sc. IT - Semester: III  
 Subject: Principles of Geographic Information Systems  
 Subject Code: IS11604



No. of Lectures Allotted per week: 03  
 No. of Lectures Covered per Semester: 30  
 No. of Lectures Allotted per Semester: 30

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
December	1. A Gentle Introduction to GIS The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GISApplications, Spatial data and Geoinformation, The real world and representations of it: Models and modelling, Maps, Databases, Spatial databases and spatial analysis, Geographic Information and Spatial Database, Models and Representations of the real world, Geographic Phenomena, Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	1. A Gentle Introduction to GIS The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GISApplications, Spatial data and Geoinformation, The real world and representations of it: Models and modelling, Maps, Databases, Spatial databases and spatial analysis, Geographic Information and Spatial Database, Models and Representations of the real world, Geographic Phenomena, Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	1
January	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects, Organizing and Managing Spatial Data, The Temporal Dimension, II. Data Management and Processing Systems, Hardware and Software Trends	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects, Organizing and Managing Spatial Data, The Temporal Dimension, II. Data Management and Processing Systems, Hardware and Software Trends, Geographic Information Systems, GIS Software, GIS	9



	<p>Geographic Information Systems: GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)</p> <p>Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation, Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database, GIS and Spatial Database: Linking GIS and DBMS, Spatial database functionality: III. Spatial Referencing and Positioning</p> <p>Spatial Referencing: Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations</p> <p>Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology</p>	<p>Architecture and functionality</p> <p>Spatial Data Infrastructure (SDI)</p> <p>Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation, Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database, GIS and Spatial Database: Linking GIS and DBMS, Spatial database functionality: III. Spatial Referencing and Positioning</p> <p>Spatial Referencing: Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations</p> <p>Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology</p>	
<p>February</p>	<p>Data Entry and Preparation</p> <p>Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, Obtaining spatial data elsewhere</p> <p>Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, temporal accuracy, Usage, Completeness, Logical consistency</p> <p>Data Preparation: Data checks and repairs, Combining data from multiple sources</p> <p>Point Data Transformation: Interpolating discrete</p>	<p>Data Entry and Preparation</p> <p>Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, Obtaining spatial data elsewhere</p> <p>Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, temporal accuracy, Usage, Completeness, Logical consistency</p> <p>Data Preparation: Data checks and repairs, Combining data from multiple sources</p> <p>Point Data Transformation: Interpolating discrete</p>	<p>11</p>



	<p>data, Interpolating continuous data</p> <p>IV. Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification Overlay functions: Vector overlay operators, Raster overlay operators, Neighbourhood functions Proximity computations, Computation of distance, Flow computation, Raster based surface analysis Analysis: Network analysis, interpolation, terrain modeling</p>	<p>data, Interpolating continuous data</p> <p>IV. Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification Overlay functions: Vector overlay operators, Raster overlay operators, Neighbourhood functions, Proximity computations, Computation of distance, Flow computation, Raster based surface analysis Analysis: Network analysis, interpolation, terrain modeling</p>	
March	<p>GIS and Application models, GPS, Open GIS Standards, GIS Applications and Advances Error Propagation in spatial processing: How Errors propagate, Quantifying error propagation</p> <p>V. Data Visualization GIS and Maps, The Visualization Process Visualization Strategies Present or explore? The cartographic toolbox: What kind of data do I have? How can I map my data? How to map? How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series Map Cosmetics, Map Documentation</p>	<p>GIS and Application models GPS, Open GIS Standards, GIS Applications and Advances Error Propagation in spatial processing: How Errors propagate, Quantifying error propagation</p> <p>V. Data Visualization GIS and Maps, The Visualization Process Visualization Strategies Present or explore? The cartographic toolbox: What kind of data do I have? How can I map my data? How to map? How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series Map Cosmetics, Map Documentation</p>	2
Signature of Coordinator: 		Signature of Subject Teacher: 	



LAXMI CHARITABLE TRUST'S  
 SETHU L. U. J. & SRI M.V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANDHRAI (E), MUMBAI - 400 066

Teaching Plan and Implementation Record (TPI)-24

Department		B.Sc. IT	
Name of teacher		Mrs. Anshu Gulamkar	
Class: B.Sc. IT - Semester: 06			
Subject: GIS PRACTICAL			
Subject Code: US11SP4			
No. of lectures Allotted per week: 02			
No. of lectures Covered per Semester: 14			
No. of lectures Allotted per Semester: 29			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	1. Creating and Managing Vector Data: Adding vector layers, setting properties, Formatting, calculating line lengths and statistics 2. Exploring and Managing Raster data: Adding raster layers, raster styling and analysis, raster mosaicking and clipping 3. Making a Map: Working with attributes, importing Spreadsheets + CSV files Using Plugins, Searching and Downloading OpenStreetMap Data	1. Creating and Managing Vector Data: Adding vector layers, setting properties, Formatting, calculating line lengths and statistics 2. Exploring and Managing Raster data: Adding raster layers, raster styling and analysis, raster mosaicking and clipping 3. Making a Map: Working with attributes, importing Spreadsheets + CSV files Using Plugins, Searching and Downloading OpenStreetMap Data	6
February	4. Working with attributes, Format Data 5. Working with projections: WMS Data 6. Georeferencing Topo Sheets and Scanned Maps 7. Managing Data Tables and Spatial data Sets: Table joins, spatial joins, points in polygon analysis, performing spatial queries	4. Working with attributes, Format Data 5. Working with projections: WMS Data 6. Georeferencing Topo Sheets and Scanned Maps 7. Managing Data Tables and Spatial data Sets: Table joins, spatial joins, points in polygon analysis, performing spatial queries	4
March	8. Advanced GIS Operations 1: Nearest Neighbor Analysis, Sampling Raster Data using Points or Polygons, Interpolating Point Data 9. Advance GIS Operations 2: Batch Processing using Processing Framework	8. Advanced GIS Operations 1: Nearest Neighbor Analysis, Sampling Raster Data using Points or Polygons, Interpolating Point Data 9. Advance GIS Operations 2: Batch Processing using Processing Framework	4



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Automating Complex  
Workflows using Processing  
Modeler  
Automating Map Creation with  
Print Composer Atlas  
10 Validating map data

Automating Complex  
Workflows using Processing  
Modeler  
Automating Map Creation with  
Print Composer Atlas  
10 Validating map data

Signature of Coordinator: 

Signature of Subject Teacher: 



**LAXMI CHARITABLE TRUST'S**  
**METHU. U. J. & SIBU. M. V. COLLEGE OF ARTS, SCIENCE & COMMERCE,**  
**DR. S. RADHAKRISHNAN MARG, ANDHERI (E), MUMBAI - 400 009**

**Teaching Plan and Implementation Record (2023-24)**

Department: IT, SSI, IT  
 Name of teacher: Mr. Nikhil Munde

Class: T. Y. B.Sc. IT Semester - VI

Subject: IT Services Management

Subject Code: 151706

No. of lectures Allotted per week: 04

No. Of lectures Covered per Semester: 22

No. Of lectures Allotted per Semester: 60

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	IT Services Management Introduction, What is service management? What are services? Business Process, Principles of Service management, Specialisation and Coordination, The agency principle, Encapsulation, Principles of systems, The service Life Cycle, Functions and processes across the life cycle. Service Strategy Principles: Value creation, Service Assets, Service Provider Service Structures, Service Strategy Principles: Service Strategy Define the market, Develop the offerings, Develop Strategic Assets, Prepare for execution, Challenges, Critical Success factors and risks: Complexity, Coordination and Control, Preserving value, Effectiveness in measurement, Risks.	IT Service Management: Introduction, What is service management? What are services? Business Process, Principles of Service management, Specialisation and Coordination, The agency principle, Encapsulation, Principles of systems, The service Life Cycle, Functions and processes across the life cycle. Service Strategy Principles: Value creation, Service Assets, Service Provider Service Structures, Service Strategy Principles: Service Strategy Define the market, Develop the offerings, Develop Strategic Assets, Prepare for execution, Challenges, Critical Success factors and risks: Complexity, Coordination and Control, Preserving value, Effectiveness in measurement, Risks.	6
February	Service Design: Fundamentals, Service Design Principles: Goals, Balanced Design, Identifying Service requirements, identifying and documenting business requirements and drivers, Design activities, Design aspects, Subsequent design activities, Design constraints, Service oriented architecture, Business Service Management, Service Design Models, Service Design Processes, Service Catalogue	Service Design: Fundamentals, Service Design Principles: Goals, Balanced Design, Identifying Service requirements, identifying and documenting business requirements and drivers, Design activities, Design aspects, Subsequent design activities, Design constraints, Service oriented architecture, Business Service Management, Service Design Models, Service Design Processes, Service Catalogue	6



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	<p>Management, Service Level Management, Capacity Management, Availability Management, IT Service Continuity Management, Information Security Management, Supplier Management Challenges</p> <p>Critical Success factors and risks: Challenges, Risks</p> <p>Service Transition</p> <p>Fundamentals, Service Transition Principles: Principles Supporting Service Transition, Policies for Service Transition</p>	<p>Management, Service Level Management, Capacity Management, Availability Management, IT Service Continuity Management, Information Security Management, Supplier Management Challenges</p> <p>Critical Success factors and risks: Challenges, Risks</p> <p>Service Transition</p> <p>Fundamentals, Service Transition Principles: Principles Supporting Service Transition, Policies for Service Transition</p>	
March	<p>Service Transition Processes: Transition planning and support, Change Management, Service Asset Configuration Management, Service and Deployment Management, Service Validation and Testing, Evaluation, Knowledge Management, Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks, Service Transition under difficult Conditions, Service Operation</p> <p>Fundamentals, Service Operation Principles: Functions, groups, teams, departments and divisions, a driving balance in service operations, Providing service, Operation staff involvement in service design and service transition, Operational Health, Communication, Documentation, Service Operation Processes, Event Management, Incident Management, Request Fulfillment, Problem Management, Access Management, Operational activities of processes covered in other lifecycle phases</p> <p>Challenges</p> <p>Critical Success factors and risks: Challenges, Critical Success factors, Risks</p>	<p>Service Transition Processes: Transition planning and support, Change Management, Service Asset Configuration Management, Service and Deployment Management, Service Validation and Testing, Evaluation, Knowledge Management, Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks, Service Transition under difficult Conditions, Service Operation</p> <p>Fundamentals, Service Operation Principles: Functions, groups, teams, departments and divisions, a driving balance in service operations, Providing service, Operation staff involvement in service design and service transition, Operational Health, Communication, Documentation, Service Operation Processes, Event Management, Incident Management, Request Fulfillment, Problem Management, Access Management, Operational activities of processes covered in other lifecycle phases</p> <p>Challenges</p> <p>Critical Success factors and risks: Challenges, Critical Success factors, Risks</p>	10



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Continual Service Improvement  
CM Principles  
CM Approach, CM and organizational change,  
Ownership, CM register,  
External and Internal drivers,  
Service level management,  
Knowledge management, The Deming cycle, Service Measurement, IT governance, Frameworks, models, standards and quality Systems, CM inputs and outputs, CM Process: The seven-step improvement process,  
CM Methods and Techniques  
Methods and techniques,  
Assessment, benchmarking,  
Service Measurement, Metrics, Return on Investment, Service reporting, CM and other service management processes,  
Organizing for CM:  
Organizational development, Functions, roles, Customer Engagement, Responsibility model - RACI, Competence and training, Technology considerations, Tools to support CM activities,  
Implementing CM: Critical Considerations for implementing CM, The start, Governance, CM and organizational change,  
Communication Strategy and Plan

Continual Service Improvement  
CM Principles  
CM Approach, CM and organizational change,  
Ownership, CM register,  
External and Internal drivers,  
Service level management,  
Knowledge management, The Deming cycle, Service Measurement, IT governance, Frameworks, models, standards and quality Systems, CM inputs and outputs, CM Process: The seven-step improvement process,  
CM Methods and Techniques  
Methods and techniques,  
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Service Measurement, Metrics, Return on Investment, Service reporting, CM and other service management processes,  
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Organizational development, Functions, roles, Customer Engagement, Responsibility model - RACI, Competence and training, Technology considerations, Tools to support CM activities,  
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Communication Strategy and Plan

Signature of Coordinator: 

Signature of Subject Teacher: 



LAXMI CHARITABLE TRUST'S  
 MITHI L. D. & MRS. M. V. COLLEGE OF ARTS, SCIENCE & COMMERCE  
 DR. S. RADHAKRISHNAN MARG, ANHOLI (II), MUMBAI - 400 069

Teaching Plan and Implementation Record (2021-22)



Department: B.Sc. IT  
 Name of teacher: Mr. Akash Nisar

Class: I.Y. B.Sc. IT Semester-VI  
 Subject: Advanced Mobile Programming (Practical)  
 Subject Code: US7095


Total lectures Allotted per week: 02  
 No. Of lectures Covered per semester: 24  
 No. Of lectures Allotted per Semester: 30

Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	1. Introduction to Android, Introduction to Android Studio IDE, Application Fundamentals: Creating a Project, Android Components, Activities, Services, Content Providers, Broadcast Receivers, Intent filters, Creating Android Virtual device, USB debugging mode, Android Application Overview, Simple "Hello World" program.	1. Introduction to Android, Introduction to Android Studio IDE, Application Fundamentals: Creating a Project, Android Components, Activities, Services, Content Providers, Broadcast Receivers, Intent filters, Creating Android Virtual device, USB debugging mode, Android Application Overview, Simple "Hello World" program.	2
February	2. Programming Resources Android Resources: Color, Theme, String, Drawable, Dimension, Image. 3. Programming Activities and fragments Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments. 4. Programs related to different Layouts Coordinator, Linear, Relative, Table, Absolute, Frame, List View, Grid View. 5. Programming UI elements AppBar, Fragments, UI Components 6. Programming menus, dialog, dialog fragments. 7. Programs on Intents, Events, Listeners and Adapters The Android Intent Class, Using Events and Event Listeners	2. Programming Resources Android Resources: Color, Theme, String, Drawable, Dimension, Image. 3. Programming Activities and fragments Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments. 4. Programs related to different Layouts Coordinator, Linear, Relative, Table, Absolute, Frame, List View, Grid View 5. Programming UI elements AppBar, Fragments, UI Components 6. Programming menus, dialog, dialog fragments 7. Programs on Intents, Events, Listeners and Adapters The Android Intent Class, Using Events and Event Listeners	10



March	Programs on Services, notification and broadcast receivers 8. Database Programming with SQLite	Programs on Services, notification and broadcast receivers 9. Database Programming with SQLite	6
April	10. Programming threads, handlers and asynchronous programs 11. Programming Media API and Telephone API	10. Programming threads, handlers and asynchronous programs 11. Programming Media API and Telephone API	6
Signature of Coordinator: 		Signature of Subject Teacher: 	



<b>Department</b>		B.Sc. IT	
<b>Name of teacher</b>		Mrs. Sneha Govardhan, Ms. Manna Ghosevarghese, Mrs. Rajani V. Jagtap, Mr. Sunil Tripathi	
Class: IT, B.Sc. IT Semester- VI			
Subject: Project Implementation			
Subject Code: 150101			
Total Lectures Allotted per week: 02			
No. of Lectures Covered per Semester: 14			
No. of Lectures Allotted per Semester: 20			
Month of teaching	Topic Proposed	Topic Covered	No. of lectures per topic
January	CHAPTER 5: IMPLEMENTATION AND TESTING 5.1 Implementation Approaches 5.2 Coding Details and Code Efficiency 5.2.1 Code Efficiency 5.3 Testing Approach 5.3.1 Unit Testing 5.3.2 Integrated Testing 5.3.3 Beta Testing 5.4 Modifications and Improvements 5.5 Test Cases	CHAPTER 5: IMPLEMENTATION AND TESTING 5.1 Implementation Approaches 5.2 Coding Details and Code Efficiency 5.2.1 Code Efficiency 5.3 Testing Approach 5.3.1 Unit Testing 5.3.2 Integrated Testing 5.3.3 Beta Testing 5.4 Modifications and Improvements 5.5 Test Cases	6
February	CHAPTER 6: RESULTS AND DISCUSSION 6.1 Test Reports 6.2 User Documentation	CHAPTER 6: RESULTS AND DISCUSSION 6.1 Test Reports 6.2 User Documentation	4
March	CHAPTER 7: CONCLUSIONS 7.1 Conclusion 7.1.1 Significance of the System 7.2 Limitations of the System 7.3 Future Scope of the Project REFERENCES GLOSSARY APPENDIX A APPENDIX B	CHAPTER 7: CONCLUSIONS 7.1 Conclusion 7.1.1 Significance of the System 7.2 Limitations of the System 7.3 Future Scope of the Project REFERENCES GLOSSARY APPENDIX A APPENDIX B	4
Signature of Coordinator: 		Signature of Subject Teacher: 