

**DEPARTMENT OF GEOGRAPHY**  
**TEACHING PLAN OF HEMANTA SUTRADHAR**  
**Geography (GENERAL/GE) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V (G)   | No. of Lecture |
|-------|---|----------------|---|----------------|---|----------------|
| Jul   | <b>Theory:</b><br>CCIA<br><b>Geomorphology and Cartography</b><br><b>Unit 1:</b><br>1. Weathering: Types and related landforms.         | 5              | <b>Theory</b><br><b>CC 1C:</b><br><b>Human Geography</b><br><b>Unit 1:</b><br>3. Eskimos: Adjustment to the environment and recent development  | 2              | <b>Theory</b><br><b>DSE-1A :</b><br><b>GEOGRAPHY OF INDIA</b><br><b>UNIT: 1</b><br><br>1. Physical Setting – Landforms, Drainage, Climate | 5              |
|       | <b>Practical</b><br>CCIA<br><b>Geomorphology and Cartography</b><br><br><b>Unit 2:</b><br>3. Composite bar diagram and age-sex pyramid. | 2              | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map interpretation</b><br><br>3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement | 3              | 2. Population – Size and Growth since Independence  | 5              |
| Aug   | <b>Theory:</b><br>CCIA<br><b>Geomorphology and Cartography</b><br><b>Unit 1:</b><br>7. Fluvial Cycle of Erosion – Davis and Penck       | 5              | <b>Theory</b><br><b>CC 1C:</b><br><b>Human Geography</b><br><b>Unit 1:</b><br>3. Eskimos: Adjustment to the environment and recent development  | 3              | <b>Theory</b><br><b>DSE-1A :</b><br><b>GEOGRAPHY OF INDIA</b><br><b>UNIT: 1</b><br><br>3. Settlement – Rural and Urban Types              | 5              |
|       | <b>Practical</b><br>CCIA<br><b>Geomorphology and Cartography</b><br><b>Unit 2:</b><br>3. Composite bar diagram and age-sex pyramid.     | 3              | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map interpretation</b><br><br>3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement | 2              | 4. Agricultural Resource: Rice and Wheat and Cotton   | 5              |
| Sept  | <b>Theory:</b><br>CCIA<br><b>Geomorphology and Cartography</b><br>8. Hydrological Cycle and ground water.                               | 5              | <b>Theory</b><br><b>CC 1C:</b><br><b>Human Geography</b><br><b>Unit 1:</b><br>4. Population: Population Growth and Demographic Transition Theory  | 3              | <b>Theory</b><br><b>DSE-1A :</b><br><b>GEOGRAPHY OF INDIA</b><br><b>UNIT: 1</b><br><br>5. Mineral Resource - Iron ore and Bauxite         | 5              |
|       | <b>Practical</b><br>CCIA<br><b>Geomorphology and Cartography</b><br><b>Unit 2:</b><br>4. Taylor's Climograph and                        | 3              | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map interpretation</b><br><br>4. Interpretation of weather  | 2              |   |                |

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|            | Hythergraph   |   | maps   |                     |   |                         |
| <b>Oct</b> | <b>Practical CCIA Geomorphology and Cartography Unit 2:</b><br>4. Taylor's Climograph and Hythergraph | 2 | <b>Theory CC 1C: Human Geography Unit 1:</b><br>4. Population: Population Growth and Demographic Transition Theory<br><b>Practical CC 1C: Unit II: Map Projection and Map interpretation</b><br><br>4. Interpretation of weather maps                                      | 2<br><br><br>3      | <b>Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1</b><br><br>6. Energy Resources: Coal and Petroleum  | 5                       |
| <b>Nov</b> | Practice classes  | 5 | <b>Theory CC 1C: Human Geography Unit 1:</b><br>5. Types of population migration with reference to India<br><br>Practice classes   | 5<br><br>5          | <b>Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1</b><br><br>7. Industries: Cotton Textile and Iron and Steel<br><br>Practice classes   | 5<br><br>5              |
| <b>Dec</b> | Special class   | 5 | <b>Theory CC 1C: Human Geography Unit 1:</b><br>6. World Population Distribution and Composition (Age, Gender and Literacy)<br><br>Special class   | 5<br><br>5          | <b>Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1</b><br><br>8. Regional Account of Sunderban and Marusthali<br><br>Special class   | 5<br><br>5              |
|            | <b>Sem-II (G)</b>   |   | <b>Sem-IV (G)</b>  |                     | <b>Sem-VI (G)</b>   |                         |
| <b>Jan</b> | <b>Practical Surveying and Levelling Unit II:</b><br>1. Definition and classification of surveying    | 5 | <b>Theory CC – 1D Environmental Geography</b><br>1. Concepts and approaches of Environmental Geography:<br><br>2. Concept, Structure and Functions of Ecosystem<br><br><b>Practical CC-1D ENVIRONMENTAL GEOGRAPHY</b><br><br>1. Questionnaire for Air Pollution and Health | 5<br><br>5<br><br>5 | <b>Theory DSE- 1B : Disaster Management UNIT: 1</b><br>7. Cyclone: Causes, Consequences and Management<br><b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br><br>1. Soil Sampling Techniques<br><br><b>Practical DSE- 1B : Disaster</b> | 3<br><br><br>6<br><br>5 |

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|            |   |          | Perception Survey   |  | <b>Management Project Work Unit: 2</b>   |  |
| <b>Feb</b> | <b>Practical Surveying and Levelling Unit II:</b><br><br>2. Plane table survey by radiation method. | <b>2</b> | <b>Theory CC – 1D Environmental Geography</b><br><br>3. Human-Environment Relationship in Mountain and Coastal Regions<br><br>4. Environmental Problems and Management: Air and Water Pollution<br><br><b>Practical CC-1D ENVIRONMENTAL GEOGRAPHY</b><br>2. Soil Test using Kit : pH and Organic Carbon | <b>5</b><br><br><b>5</b><br><br><b>5</b> | <b>Theory DSE- 1B : Disaster Management UNIT: 1</b><br>7. Cyclone: Causes, Consequences and Management<br><b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br><br>2. Representation of Soil Texture Data using Ternary Diagram<br><br><b>Practical DSE- 1B : Disaster Management Project Work Unit: 2</b> | <b>2</b><br><br><b>6</b><br><br><b>5</b> |
| <b>Mar</b> | <b>Practical Surveying and Levelling Unit II:</b><br><br>2. Plane table survey by radiation method. | <b>3</b> | <b>Theory CC-1D. ENVIRONMENTAL GEOGRAPHY</b><br><br>5. Environmental Programmes and Policies: MAB<br><br><b>Practical CC-1D: ENVIRONMENTAL GEOGRAPHY</b><br>3. Mapping of Wetlands from Topographical Sheet   | <b>5</b><br><br><b>5</b>                 | <b>Theory DSE- 1B : Disaster Management UNIT: 1</b><br><br>8. Flood: Causes, Consequences and Management<br><b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br><br>3. Estimation of Nitrogen using Soil Kit<br><br><b>Practical DSE- 1B : Disaster Management Project Work Unit: 2</b>                   | <b>2</b><br><br><b>7</b><br><br><b>5</b> |
| <b>Apr</b> | <b>Practical</b>  |          | <b>Theory</b>   |  | <b>Theory DSE- 1B : Disaster</b>   |  |

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|      | <b>Surveying and Levelling Unit II:</b><br>3. Open and close traversing by Prismatic Compass                                   | 5          | <b>CC-1D. ENVIRONMENTAL GEOGRAPHY</b><br>6. Forest and Wild Life Policy of India<br><br><b>Practical CC-1D: ENVIRONMENTAL GEOGRAPHY</b><br>4. Mapping of Forest from Topographical Sheet | 5<br><br>5     | <b>Management UNIT: 1</b><br>8. Flood: Causes, Consequences and Management<br><b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br>4. Estimation of Soil pH using Soil Kit<br><br><b>Practical DSE- 1B : Disaster Management Project Work Unit: 2</b>                 | 3<br><br>7<br><br>5 |
| May  | <b>Practical Surveying and Levelling Unit II:</b><br>4. Drawing of longitudinal profile by Dumpy level<br><br>Practice classes | 5<br><br>5 | <b>Theory CC-1D. ENVIRONMENTAL GEOGRAPHY</b><br>7. Environmental Movements in India: Chipko<br><br><br>Practice classes  | 5<br><br><br>5 | <b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br>5. Estimation of Soil Organic Carbon using Soil Kit<br><br>Practice classes  | 7<br><br><br>5      |
| June | Special class  | 5          | <b>Theory CC-1D. ENVIRONMENTAL GEOGRAPHY</b><br>8. Wetlands: Ramsar Sites in India<br><br>Special class  | 5<br><br>5     | <b>Theory DSE-3 (Theoretical): RESOURCE GEOGRAPHY Unit 2:</b><br>5. Contemporary Energy Crisis and Future Scenario<br>6. Sustainable Resource Development<br><br><b>SEC-4 : Collection, Mapping and Interpretation of Pedological Data</b><br>6. Analysis and Mapping – pH and Organic Carbon | 5<br><br>5<br><br>7 |

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|  |  |  |  |  | Special class | 5 |
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*Hemanta Sutrachar.*

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**DEPARTMENT OF GEOGRAPHY**  
**TEACHING PLAN OF CHAITALI GORAI**  
**Geography (GENERAL/GE) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V (G)   | No. of Lecture |
|-------|---|----------------|---|----------------|---|----------------|
| Jul   | Theory<br>CCI-A:<br>Geomorphology<br>and Cartography<br>4. Landform<br>development in arid<br>regions           | 3              | Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br>1. Definition, Nature, Major<br>Subfields, Contemporary<br>Relevance          | 2              | Theory<br>DSE 1A :<br>ECONOMIC<br>GEOGRAPHY<br>UNIT: 1<br><br>1. Scope and Content<br>of Economic<br>Geography<br>2. Von Thunen<br>Theory of Land Use | 5<br><br>5     |
| Aug   | Theory<br>CCI-A:<br>Geomorphology<br>and Cartography<br>4. Landform<br>development in arid<br>regions           | 2              | Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br>1. Definition, Nature, Major<br>Subfields, Contemporary<br>Relevance          | 3              | Theory<br>DSE 1A :<br>ECONOMIC<br>GEOGRAPHY<br>UNIT: 1<br><br>3. Theory of<br>Industrial Location -<br>Weber<br>4. Types of Farming                   | 5<br><br>5     |
| Sept  | Theory<br>CCI-A:<br>Geomorphology<br>and Cartography<br><br>5. Landform<br>development in<br>glaciated regions. | 3              | Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br><br>2. Space and Society:<br>Cultural Regions; Race;<br>Religion and Language | 3              | Theory<br>DSE 1A :<br>ECONOMIC<br>GEOGRAPHY<br>UNIT: 1<br><br>5. Intensive<br>Subsistence Farming<br>and Plantation<br>Agriculture                    | 5              |
| Oct   | Theory<br>CCI-A:<br>Geomorphology<br>and Cartography<br><br>5. Landform<br>development in<br>glaciated regions. | 2              | Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br><br>2. Space and Society:<br>Cultural Regions; Race;<br>Religion and Language | 2              | Theory<br>DSE 1A :<br>ECONOMIC<br>GEOGRAPHY<br>UNIT: 1<br>6. Commercial<br>Fishing  | 5              |
| Nov   | Theory<br>CCI-A:<br>Geomorphology<br>and Cartography  |                | Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br>7. Settlements: Types and   | 5              | Theory<br>DSE 1A :<br>ECONOMIC<br>GEOGRAPHY<br>UNIT: 1  |                |

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|            | 6. Development of fluvial landforms  | 3          | Patterns of Rural Settlements;<br>Practice classes  | 5          | 7. Mining (iron ore, coal and petroleum)<br>Practice classes   | 5<br>5     |
| <b>Dec</b> | Theory<br>CCI-A:<br>Geomorphology and Cartography<br><br>6. Development of fluvial landforms   | 2          | Theory<br>Theory<br>CC 1C:<br>Human Geography<br>Unit 1:<br>8. Classification of Urban Settlements; Functional classification of towns<br><br>Special class | 5<br><br>5 | Theory<br>DSE 1A :<br>ECONOMIC GEOGRAPHY<br>UNIT: 1<br>8. Cotton Textile Industry, Petro-Chemical Industry<br><br>Special class        | 5<br><br>5 |
|            | <b>Sem-II (G)</b>  |            | <b>Sem-IV (G)</b>   |            | <b>Sem-VI (G)</b>  |            |
| <b>Jan</b> | Theory<br>CC – 1B<br>Climatology, Soil and Biogeography<br>Unit I:<br>1. Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere.<br>2. Horizontal and vertical distribution of temperature | 5<br><br>5 |   |            | Theory<br>DSE- 1B : Disaster Management<br>UNIT: 1<br>1. Meaning and Classification of Hazards and Disasters.                          | 3          |
| <b>Feb</b> | Theory<br>CC – 1B<br>Climatology, Soil and Biogeography<br>Unit I:<br>3. Forms of precipitation and types of rainfall<br>4. Tropical and Temperate Cyclones, Climatic Classification (Koppen)  | 5<br><br>5 |   |            | Theory<br>DSE- 1B : Disaster Management<br>UNIT: 1<br>1. Meaning and Classification of Hazards and Disasters.                          | 2          |
| <b>Mar</b> | Theory<br>CC – 1B<br>Climatology, Soil and Biogeography<br>Unit I:<br>5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)  | 5          |   |            | Theory<br>DSE- 1B : Disaster Management<br>UNIT: 1<br><br>2. Approaches to hazard study; Risk perception and vulnerability assessment. | 2          |

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| Apr  | <p>Theory<br/>CC – 1B<br/>Climatology, Soil<br/>and Biogeography<br/>Unit I:<br/>6. Soil forming<br/>factors. Soil<br/>formation (Podzol<br/>and Laterite)</p>   | 5          |  |  | <p>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</p> <p>2. Approaches to<br/>hazard study: Risk<br/>perception and<br/>vulnerability<br/>assessment.</p>   | 3          |
| May  | <p>Theory<br/>CC – 1B<br/>Climatology, Soil<br/>and Biogeography<br/>Unit I:<br/>7. Definition of<br/>Biosphere and<br/>Biogeography.<br/>Meaning of<br/>Ecology,<br/>Ecosystem,<br/>Environment,<br/>Ecotone,<br/>Communities,<br/>Habitats and<br/>Biomes.</p> <p>Practice classes</p> | 5<br><br>5 |  |  | <p>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</p> <p>3. Responses to<br/>hazards:<br/>Preparedness, trauma<br/>and aftermath.<br/>Resilience and<br/>capacity building.</p> <p>Practice classes</p> | 5<br><br>5 |
| June | <p>Theory<br/>CC – 1B<br/>Climatology, Soil<br/>and Biogeography<br/>Unit I:<br/>8. Biomes:<br/>Rainforest and<br/>Temperate<br/>Grassland.</p> <p>Special class</p>   | 5<br><br>5 |  |  | <p>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</p> <p>4. Hazard mapping:<br/>Data and techniques.</p> <p>Special class</p>   | 5<br><br>5 |

For Charitli Gosai  
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**DEPARTMENT OF GEOGRAPHY**  
**TEACHING PLAN OF RANAJIT GHOSH**  
**Geography (GENERAL/GE) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V (G)   | No. of Lecture |
|-------|--|----------------|---|----------------|---|----------------|
| Jul   | <b>Theory:</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 1:</b><br>2. Lithosphere – Internal Structure of Earth based on Seismic Evidence,<br><br><b>Practical</b><br><b>CCIA Geomorphology and Cartography</b><br><br><b>Unit 2:</b><br>1. Linear and Comparative scale | 3              | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map interpretation</b><br><br>1. Simple Conical projection with one standard parallel | 3              | <b>Practical</b><br><b>SEC 1 – Computer Basics and Computer Applications</b><br>1. Numbering Systems; Binary Arithmetic   | 5              |
|       | <b>Theory:</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 1:</b><br>2. Lithosphere – Internal Structure of Earth based on Seismic Evidence,<br><br><b>Practical</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 2:</b><br>1. Linear and Comparative scale     | 2              |   |                |   |                |
| Aug   | <b>Theory:</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 1:</b><br>2. Lithosphere – Internal Structure of Earth based on Seismic Evidence,<br><br><b>Practical</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 2:</b><br>1. Linear and Comparative scale     | 2              | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map interpretation</b><br><br>1. Simple Conical projection with one standard parallel | 2              | <b>Practical</b><br><b>SEC 1 – Computer Basics and Computer Applications</b><br>2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation. | 3              |
|       | <b>Theory:</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 1:</b><br>2. Lithosphere – Internal Structure of Earth based on Seismic Evidence,<br><br><b>Practical</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 2:</b><br>1. Linear and Comparative scale     | 3              |   |                |   |                |
| Sept  | <b>Theory:</b><br><b>CCIA Geomorphology and Cartography</b><br><b>Unit 1:</b>  |                | <b>Practical</b><br><b>CC 1C:</b><br><b>Unit II: Map Projection and Map</b>   |                | <b>Practical</b><br><b>SEC 1 – Computer Basics and Computer</b>   |                |

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|     | <p>3. Plate Tectonics and its associated landforms</p> <p><b>Practical</b><br/> <b>CCIA Geomorphology and Cartography</b><br/> <b>Unit 2:</b><br/> 2. Proportional diagrams: Circles and squares</p>  | <p>3</p> <p>3</p> | <p><b>interpretation</b></p> <p>2. Cylindrical Equal Area projection</p>  | <p>2</p> | <p><b>Applications</b><br/> 2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.</p> | <p>5</p>          |
| Oct | <p><b>Theory:</b><br/> <b>Theory:</b><br/> <b>CCIA Geomorphology and Cartography</b><br/> <b>Unit 1:</b><br/> 3. Plate Tectonics and its associated landforms</p> <p><b>Practical</b><br/> <b>CCIA Geomorphology and Cartography</b><br/> <b>Unit 2:</b><br/> 2. Proportional diagrams: Circles and squares</p> | <p>3</p> <p>2</p> | <p><b>Practical</b><br/> <b>CC IC:</b><br/> <b>Unit II: Map Projection and Map interpretation</b></p> <p>2. Cylindrical Equal Area projection</p> | <p>2</p> | <p><b>Practical</b><br/> <b>SEC 1 – Computer Basics and Computer Applications</b><br/> 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram</p>   | <p>3</p>          |
| Nov | <p>Practice classes</p>   | <p>5</p>          | <p>Practice classes</p>   | <p>5</p> | <p><b>Practical</b><br/> <b>SEC 1 – Computer Basics and Computer Applications</b><br/> 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram<br/> Practice classes</p>   | <p>2</p> <p>5</p> |

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|------------|--|---|--|--------|--|-------------|
| <b>Dec</b> | Special class  | 5 | Special class  | 5      | <b>Practical<br/>SEC 1 –<br/>Computer Basics<br/>and Computer<br/>Applications</b><br>4. Internet Surfing:<br>Generation and<br>extraction of<br>information   | 5           |
|            |  |   |  |        | Special class  | 5           |
|            | <b>Sem-II (G)</b>  |   | <b>Sem-IV (G)</b>  |        | <b>Sem-VI (G)</b>  |             |
| <b>Jan</b> | <b>Theory<br/>CC 2<br/>Unit I:</b><br>5. Definition of soil.<br>Physical and chemical<br>properties of soil (soil<br>texture, colour and pH)   | 5 | <b>SEC-2: Regional<br/>Planning and<br/>Development</b><br>1. Definition of Region;<br>Types of Regions  | 5      | <b>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</b><br>5. Earthquake:<br>Causes,<br>Consequences and<br>Management   | 3           |
| <b>Feb</b> | <b>Theory<br/>CC 2<br/>Unit I:</b><br>6. Soil forming factors.<br>Soil formation (Podzol<br>and Laterite)  | 5 | <b>SEC-2: Regional<br/>Planning and<br/>Development</b><br>2. Regional Planning –<br>Concept and<br>Significance<br>3. Human Development<br>Index – Concept and<br>Indicators  | 5<br>2 | <b>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</b><br>5. Earthquake:<br>Causes,<br>Consequences and<br>Management   | 2           |
| <b>Mar</b> | <b>Theory<br/>CC 2<br/>Unit I:</b><br>7. Definition of<br>Biosphere and<br>Biogeography. Meaning<br>of Ecology,<br>Ecosystem.Environment,<br>Ecotone, Communities,<br>Habitats and Biotopes. | 5 | <b>SEC-2: Regional<br/>Planning and<br/>Development</b><br>3. Human Development<br>Index – Concept and<br>Indicators<br>4. Agricultural<br>Development in India<br>Since 1970s | 3<br>5 | <b>Theory<br/>DSE- 1B : Disaster<br/>Management<br/>UNIT: 1</b><br>8. Flood: Causes,<br>Consequences and<br>Management<br><b>SEC-4 :</b><br><b>Collection,<br/>Mapping and<br/>Interpretation of<br/>Pedological Data</b><br><br>3. Estimation of<br>Nitrogen using Soil<br>Kit<br><br><b>Practical<br/>DSE- 1B :<br/>Disaster<br/>Management<br/>Project Work<br/>Unit: 2</b> | 2<br>7<br>5 |

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|  |  | Questionnaire on Waste Management |  |  |  |
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**TEACHING PLAN OF HEMANTA SUTRADHAR**  
**Geography (Honours) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture  | Sem-V (H)  | No. of Lecture   |   |
|-------|---|----------------|--|---|--|--|---|
| Jul   | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>1. Degradational processes: Weathering, mass wasting and resultant landforms<br><b>CC-2: Cartographic Techniques and Geological map study</b><br>7. Types of rocks and minerals.<br>Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena<br><br><b>Practical</b><br><b>CC2 (Practical) Cartographic Techniques and Geological map study</b><br>4. Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure);<br>Drawing of Geological section and Interpretation of the Map. | 4              | <b>Theory</b><br><b>CC7: GEOGRAPHY OF INDIA</b><br><b>Unit 1: Geography of India</b><br>1. Geology and physiographic divisions<br>2. Climate, soil and vegetation:<br>Characteristics and classification | 2<br><br>3  | <b>Theory</b><br><b>CC-11. RESEARCH METHODOLOGY AND FIELD WORK</b><br><b>Unit 1: Research Methodology</b><br>1. Research in Geography: Meaning, types and significance<br><br><b>DSE-2 : POPULATION GEOGRAPHY</b><br><b>Unit 1:</b><br><br>1. Development of Population Geography; Relation between Population Geography and Demography<br>2. Determinants of Population Dynamics; Concept of Optimum Population | 5<br><br><br>2<br><br>3  |   |
|       | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>2. Models of landscape evolution: Views of Davis, Penck, and Hack<br><b>CC-2: Cartographic Techniques and Geological map study</b>   | 3              |  | <b>Theory</b><br><b>CC7: GEOGRAPHY OF INDIA</b><br><b>Unit 1: Geography of India</b><br>3. Population: Distribution, growth, structure and policy<br>4. Distribution of population by race, caste, religion, language, tribes | 2<br><br>3   | <b>Theory</b><br><b>CC-11. RESEARCH METHODOLOGY AND FIELD WORK</b><br><b>Unit 1: Research Methodology</b><br>2. Significance of Literature review in research<br><b>DSE-2 : POPULATION</b> | 5 |
|       |   |                |  |   |  |  |   |

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|------|---|--------|---|--------|---|-------------|
|      | <p>7. Types of rocks and minerals.<br/>Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena</p> <p><b>Practical</b><br/><b>CC2 (Practical)</b><br/><b>Cartographic Techniques and Geological map study</b><br/>4. Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure);<br/>Drawing of Geological section and Interpretation of the Map.</p> | 2      |   |        | <p><b>GEOGRAPHY</b><br/><b>Unit 1:</b><br/>3. Theories of population growth: Malthusian Theory and Marxian Approach, Demographic Transition Model<br/>4. Distribution, Density and Growth of Population in India since 1951</p>   | 3<br>2      |
| Sept | <p><b>Theory:</b><br/><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br/><b>Unit 2: Geomorphology</b><br/>3. Slope Development: Concept of Wood<br/><b>CC-2: Cartographic Techniques and Geological map study</b><br/>8. Concept of Bedding Plane, Unconformity and Non-conformity, thickness of Bed, Dip, Throw, Hade, heave</p>  | 4<br>3 | <p><b>Theory</b><br/><b>CC7: GEOGRAPHY OF INDIA</b><br/><b>Unit 1: Geography of India</b><br/>5. Agricultural regions, Green revolution and its consequences<br/>6. Mineral and power resources distribution and utilisation of iron ore, coal, petroleum</p> | 2<br>3 | <p><b>Theory</b><br/><b>CC-11. RESEARCH METHODOLOGY AND FIELD WORK</b><br/><b>Unit 1: Research Methodology</b><br/>3. Defining research problem, objectives and hypothesis. Research materials and methods</p> <p><b>DSE-2 : POPULATION GEOGRAPHY</b><br/><b>Unit 2:</b><br/>1. Population Composition and Characteristics: Age-Sex; Female-Male Ratio<br/>2. Measures of Fertility and Mortality</p> | 4<br>2<br>3 |
| Oct  | <p><b>Theory:</b><br/><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br/><b>Unit 2:</b></p>  |        | <p><b>Theory</b><br/><b>CC7: GEOGRAPHY OF INDIA</b><br/><b>Unit 1: Geography of India</b></p>   |        | <p><b>Theory</b><br/><b>CC-11. RESEARCH METHODOLOGY AND FIELD WORK</b></p>  |             |

|     |   |                   |   |                            |  |                            |
|-----|---|-------------------|---|----------------------------|--|----------------------------|
|     | <p><b>Geomorphology</b><br/>3. Slope Development: Concept of Wood<br/><b>CC-2: Cartographic Techniques and Geological map study</b><br/>8. Concept of Bedding Plane, Unconformity and Non-conformity, thickness of Bed, Dip, Throw, Hade, heave</p> | <p>4</p> <p>2</p> | <p>7. Industrial development since independence.<br/>8. Regionalisation of India: Views of Spate and Bhatt.</p>   | <p>2</p> <p>3</p>          | <p><b>Unit 1: Research Methodology</b><br/>4. Techniques of writing scientific reports: Preparing notes, references, bibliography (APA Style), abstract and keywords</p> <p><b>DSE-2 : POPULATION GEOGRAPHY</b><br/><b>Unit 2:</b><br/>3. Population Composition of India: Rural and Urban, Occupational Structure as per Census of India<br/>4. Migration: Theories, Causes and Types</p> | <p>6</p> <p>8</p>          |
| Nov | <p><b>Theory:</b><br/><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br/><b>Unit 2: Geomorphology</b><br/>4. Development of river network and landforms on uniclinal and folded structures <b>Practical</b></p> <p>Practice classes</p>                | <p>3</p> <p>5</p> | <p><b>Theory</b><br/><b>CC7: GEOGRAPHY OF INDIA</b><br/><b>Unit 2: Geography of West Bengal</b><br/>1. Physical perspectives: Physiographic divisions, forest and water resources<br/>2. Population: Growth, distribution and human development</p> <p>Practice classes</p> | <p>2</p> <p>3</p> <p>5</p> | <p><b>Theory</b><br/><b>DSE-2 : POPULATION GEOGRAPHY</b><br/><b>Unit 2:</b><br/>5. Concept of Human Development Index<br/>6. Population and development: population-resource regions.</p> <p>Practice classes</p>  | <p>2</p> <p>3</p> <p>5</p> |
| Dec | <p><b>Theory:</b><br/><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br/><b>Unit 2: Geomorphology</b><br/>4. Development of river network and landforms on uniclinal and folded structures</p> <p>Special class</p>                                    | <p>2</p> <p>5</p> | <p><b>Theory</b><br/><b>CC7: GEOGRAPHY OF INDIA</b><br/><b>Unit 2: Geography of West Bengal</b><br/>3. Resources: Mining, agriculture and industries<br/>4. Regional Development: Darjeeling Hills and Sundarban</p> <p>Special class</p>                                   | <p>2</p> <p>3</p> <p>5</p> | <p><b>Theory</b><br/><b>DSE-2 : POPULATION GEOGRAPHY</b><br/><b>Unit 2:</b><br/>7. Population policies in Selected Countries: Sweden and China<br/>8. Contemporary Issues in Population: Health and Unemployment</p> <p>Special class</p>  | <p>2</p> <p>3</p> <p>5</p> |
|     | <b>Sem-II (H)</b>   |                   | <b>Sem-IV (H)</b>   |                            | <b>Sem-VI (H)</b>  |                            |
| Jan | <b>Theory</b><br><b>CC3 (Theory) –</b>  |                   | <b>Theory</b><br><b>CC-10.</b>  |                            | <b>Theory</b><br><b>CC 14 ;</b>  |                            |

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|-----|--|-------------|---|-------------|---|-------------|
|     | <p><b>Human Geography</b><br/><b>Unit 2: Society, Demography and Ekistics</b><br/>5. Human, population and environment relations with special reference to development–environment conflict</p> <p><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/>5. Concepts of Bearing: magnetic and true, whole-circle and reduced</p> <p><b>Practical</b><br/><b>CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br/>3. Contouring by Dumpy Level and Prismatic Compass</p> | 5           | <p><b>ENVIRONMENTAL GEOGRAPHY</b><br/>1. Geographers' Approach to Environmental Studies<br/>2. Changes in Perception of Environment in different stages of Human Civilization</p> <p><b>Practical</b><br/><b>CC-10: ENVIRONMENTAL GEOGRAPHY</b><br/>1. Preparation of questionnaire for perception survey on environmental problems</p> | 5<br>5<br>5 | <p><b>DISASTER MANAGEMENT</b><br/><b>Unit 2:</b><br/>3. Cyclone: Factors, vulnerability, consequences and management</p> <p><b>DSE - 3: RESOURCE GEOGRAPHY</b><br/><b>Unit 1:</b><br/>1. Resource Geography: Its Importance and relation with other sub-disciplines<br/>2. Resource: Concept and Classification</p>                                 | 3<br>5<br>5 |
| Feb | <p><b>Theory</b><br/><b>CC3 (Theory) – Human Geography</b><br/><b>Unit 2: Society, Demography and Ekistics</b><br/>6. Social morphology and rural house types in India</p> <p><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/>5. Concepts of Bearing: magnetic and true, whole-circle and reduced</p> <p><b>Practical</b><br/><b>CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br/>3. Contouring by Dumpy Level and Prismatic Compass</p>                      | 5<br>3<br>3 | <p><b>Theory</b><br/><b>CC-10. ENVIRONMENTAL GEOGRAPHY</b><br/>3. Ecosystem: Concept, Structure and Functions</p> <p><b>Practical</b><br/><b>CC-10: ENVIRONMENTAL GEOGRAPHY</b><br/>2. Environmental Impact Assessment: Leopold Matrix</p>  | 5<br>5      | <p><b>Theory</b><br/><b>CC 14 : DISASTER MANAGEMENT</b><br/><b>Unit 2:</b><br/>3. Cyclone: Factors, vulnerability, consequences and management</p> <p><b>DSE - 3: RESOURCE GEOGRAPHY</b><br/><b>Unit 1:</b><br/>3. Functional Theory of Resource<br/>4. Problems of Resource Depletion with Special Reference to Forest, Water and Fossil Fuels</p> | 2<br>5<br>5 |
| Mar | <p><b>Theory</b><br/><b>CC3 (Theory) – Human Geography</b><br/><b>Unit 2: Society, Demography and Ekistics</b></p>   |             | <p><b>Theory</b><br/><b>CC-10. ENVIRONMENTAL GEOGRAPHY</b><br/>4.Environmental Degradation and</p>  | 5           | <p><b>Theory</b><br/><b>CC 14 : DISASTER MANAGEMENT</b><br/><b>Unit 2:</b></p>  |             |



|     |   |                            |   |                            |   |                            |
|-----|---|----------------------------|---|----------------------------|---|----------------------------|
|     | <p>7. Types and patterns of rural settlements<br/><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/>7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite<br/><b>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br/>4. Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases)</p>  | <p>2</p> <p>2</p> <p>2</p> | <p>Pollution: Water and Air<br/><b>Practical CC-10: ENVIRONMENTAL GEOGRAPHY</b><br/>3. Quality assessment of soil using field kit: pH and NPK</p>   | <p>5</p>                   | <p>4. Fire: Factors, vulnerability, consequences and management<br/><b>DSE - 3: RESOURCE GEOGRAPHY</b><br/><b>Unit 1:</b><br/>5. Resource Conservation : Principles and Methods<br/>6. Concept of 'Limits to Growth'</p>  | <p>2</p> <p>5</p> <p>5</p> |
| Apr | <p><b>Theory CC3 (Theory) – Human Geography</b><br/><b>Unit 2: Society, Demography and Ekistics</b><br/>7. Types and patterns of rural settlements<br/><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/>7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite<br/><b>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br/>4. Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases)</p> | <p>3</p> <p>3</p> <p>3</p> | <p><b>Theory CC-10. ENVIRONMENTAL GEOGRAPHY</b><br/>5. Environmental Issues related to Agriculture<br/>6. Urban Environmental issues related to Waste Management<br/><b>Practical CC-10: ENVIRONMENTAL GEOGRAPHY</b><br/>4. Interpretation of air quality using CPCB / WBPCB data</p> | <p>5</p> <p>5</p> <p>5</p> | <p><b>Theory CC 14: DISASTER MANAGEMENT</b><br/><b>Unit 2:</b><br/>4. Fire: Factors, vulnerability, consequences and management<br/><b>DSE-3: RESOURCE GEOGRAPHY</b><br/><b>Unit 2:</b><br/>1. Distribution and Utilisation of Metallic Mineral Resources in Indian Context: Iron ore, Bauxite<br/>2. Distribution and Utilisation of Non-Metallic Mineral Resources in Indian Context: Mica, Limestone</p> | <p>3</p> <p>5</p> <p>5</p> |

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|------|---|---|--|------------|---|---------------------|
| May  | <b>Theory</b><br><b>CC3 (Theory) – Human Geography</b><br><b>Unit 2: Society, Demography and Ekistics</b><br>8. Functional Classification of urban settlements                |   | <b>Theory</b><br><b>CC-10. ENVIRONMENTAL GEOGRAPHY</b><br>7. Concept and Issues related to Bio-diversity<br><br>Practice classes                                 | 5<br><br>7 | <b>Theory</b><br><b>DSE - 3 : RESOURCE GEOGRAPHY</b><br><b>Unit 2:</b><br>3. Distribution, Problems and Management of Energy Resources in Indian Context: Conventional (Coal) and Non-Conventional (Solar)<br>4. Power resources and problems with reference to Petroleum<br><br>Practice classes | 5<br><br>5<br><br>7 |
|      | <b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br><br>7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite | 3 |  |            |   |                     |
|      | Practice classes  | 5 |  |            |   |                     |
| June | <b>Theory</b><br><b>CC3 (Theory) – Human Geography</b><br><b>Unit 2: Society, Demography and Ekistics</b><br>8. Functional Classification of urban settlements                |   | <b>Theory</b><br><b>CC-10. ENVIRONMENTAL GEOGRAPHY</b><br>8. Environmental Programs and Policies on Forest and Wetland: National and Global<br><br>Special class | 5<br><br>5 | <b>Theory</b><br><b>DSE-3: RESOURCE GEOGRAPHY</b><br><b>Unit 2:</b><br>5. Contemporary Energy Crisis and Future Scenario<br>6. Sustainable Resource Development<br><br>Special class  | 5<br><br>5<br><br>5 |
|      | <b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br><br>7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite | 2 |  |            |   |                     |
|      | Special class   | 5 |  |            |   |                     |

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**DEPARTMENT OF GEOGRAPHY**  
**TEACHING PLAN OF RANAJIT GHOSH**  
 Geography (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|---|----------------|--|----------------|--|----------------|
| Jul   | <b>CC1 Theory: Geotectonics and Geomorphology</b><br>Unit 1: 1. Earth's tectonic and structural evolution with reference to geological time scale<br><b>CC2 (Theory):</b><br>1. Maps: Classification and Types. Components of a Map | 5              | <b>CC 6 (Theory):</b><br>Unit 1<br>1. Importance and significance of Statistics in Geography. Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal, interval and ratio), sources of data<br><b>CC 6 (Practical):</b><br>1. Construction of data matrix with each row representing an aerial unit (districts / blocks / mouzas / towns) and corresponding columns of relevant attributes.<br><b>SEC 1</b><br>1. Numbering Systems; Binary Arithmetic | 5              | <b>CC 11(Theory):</b><br>Unit 2<br>1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork<br><b>CC 12(Theory):</b><br>Unit 1<br>1. Definition, Concepts and Principles of Remote Sensing (RS): Types of Air Photo, RS satellites, sensors and platforms.<br>Unit 2<br>1. Definition and Components of Geographical Information System (GIS) and raster and vector data structures | 5              |
|       |   | 3              |  | 5              |  | 5              |
|       |   | 7              |  | 5              |  |                |
| Aug   | <b>CC1 Theory: Geotectonics and Geomorphology</b><br>Unit 1: 2. Earth's interior with special reference to seismology.<br><b>CC2 (Theory):</b><br>1. Maps: Classification and Types. Components of a Map                            | 5              | <b>CC 6 (Theory):</b><br>Unit 1<br>2. Collection of data and formation of statistical tables<br>Unit 2<br>1. Central tendency: Mean, median, mode, partition values<br><b>SEC 1</b><br>1. Numbering Systems; Binary Arithmetic<br>2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.                | 5              | <b>CC 11(Theory):</b><br>Unit 2<br>2. Field techniques and tools: Questionnaires (open, closed, structured, non-structured). Interview with special reference to focused group discussions.<br><b>CC 12(Theory):</b><br>Unit 1<br>2. EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS.<br>Unit 2<br>2. Principles of preparing attribute tables and overlay analysis                                       | 5              |
|       |   | 2              |  | 5              |  | 5              |
|       |   |                |  | 3              |  | 4              |
|       |   |                |  |                |  |                |
| Sept  | <b>CC1 Theory: Geotectonics and Geomorphology</b><br>Unit 1:3. Concept of Isostasy: Theories  | 5              | <b>CC 6 (Theory):</b><br>Unit 2<br>2. Measures of dispersion range, mean deviation, standard deviation, coefficient of variation   | 5              | <b>CC 11 (Practical):</b><br>Preparation of Field report<br><b>CC 12(Theory):</b><br>Unit 1<br>3. Principles of False  | 5              |

|            |   |                     |  |                                       |  |                              |
|------------|---|---------------------|--|---------------------------------------|--|------------------------------|
|            | of Airy and Pratt<br>4. Plate Tectonics:<br>Processes at constructive, conservative, destructive boundaries and hotspots: resulting landforms<br><b>CC2 (Theory):</b><br>2. Concept of Scales: Plain, Comparative, Diagonal and Vernier   | 2<br><br>2          | <b>CC 6 (Practical):</b><br>2. Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted.<br><b>SEC 1</b><br>2. Data Computation, Storing and Formatting in Spreadsheets:<br>Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.<br>3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram | 5<br><br>6<br><br>1                   | Colour Composites (FCC) from IRS LISS-III and Landsat Images (ETM+) data: Image Processing, Pre-processing; Enhancement; Classification.<br><b>CC 12(Practical):</b><br>1. Georeferencing of Scanned Maps  | 5<br><br>5                   |
| <b>Oct</b> | <b>CC1 Theory: Geotectonics and Geomorphology</b><br>Unit 1: 4. Plate Tectonics: Processes at constructive, conservative, destructive boundaries and hotspots: resulting landforms<br><b>CC2 (Practical):</b><br>1. Construction of Scales: Plain, Comparative, Diagonal and Vernier  | 3<br><br>5          | <b>CC 6 (Theory):</b><br>Unit 1<br>3. Sampling: Need, types, and significance and methods of random sampling<br><b>CC 6 (Practical):</b><br>3. Histograms and frequency curve would be prepared on the dataset.<br><b>SEC 1</b><br>3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram  | 5<br><br>5<br><br>6                   | <b>CC 11 (Practical):</b><br>Preparation of Field report<br><b>CC 12(Theory):</b><br>Unit 2<br>3. Principles of GNSS positioning - Uses and Waypoint Collection Methods<br><b>CC 12(Practical):</b><br>2. Preparation of FCC using IRS LISS-III and/or Landsat (ETM+) data   | 5<br><br>5<br><br>5          |
| <b>Nov</b> | <b>CC2 (Theory):</b><br>2. Concept of Scales: Plain, Comparative, Diagonal and Vernier<br>3. Coordinate Systems: Polar and Rectangular. Concept of Geoid and Spheroid. Map Projections: Classification, Properties and Uses. Concept and Significance of UTM Projection<br><b>CC2 (Practical):</b><br>2. Construction of Projections: Polar | 2<br><br>5<br><br>2 | <b>CC 6 (Theory):</b><br>Unit 1<br>4. Distribution: frequency, cumulative frequency<br>Unit 2<br>3. Association and correlation: Rank correlation, product moment correlation<br><b>SEC 1</b><br>3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram<br>4. Internet Surfing: Generation and extraction of information<br>Special class  | 5<br><br>5<br><br>3<br><br>4<br><br>5 | <b>CC 11 (Practical):</b><br>Preparation of Field report<br><b>CC 12(Theory):</b><br>Unit 1<br>4. Principles of image interpretation for Forest, Water and Soil<br><b>CC 12(Practical):</b><br>3. Preparation of LULC Map by Supervised Image Classification (Maximum Likelihood) using IRS LISS-III or Landsat (ETM+) data<br><br>Special class | 5<br><br>5<br><br>5<br><br>5 |

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|-----|--|---------------------|--|------------------------------|--|------------------------------|
|     | Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's Special class   | 5                   |  |                              |  |                              |
| Dec | <b>CC2 (Theory):</b><br>4. Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement<br><b>CC2 (Practical):</b><br>2. Construction of Projections: Polar Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's Practice classes | 5<br><br>2<br><br>5 | <b>CC 6 (Theory):</b><br>Unit 2<br>4. Linear Regression and time series analysis<br><b>CC 6 (Practical):</b><br>4. Based on of the sample set and using two relevant attributes, a scatter diagram and regression line would be plotted and residual from regression would be mapped with a short interpretation.<br><b>SEC 1</b><br>4. Internet Surfing: Generation and extraction of information<br>Practice classes | 5<br><br>5<br><br>6<br><br>5 | <b>CC 11 (Practical):</b><br>Preparation of Field report<br><b>CC 12(Theory):</b><br>Unit 2<br>4. Applications of Geographical Information System in Flood Management and Urban Sprawl<br><b>CC 12(Practical):</b><br>4. Digitisation of Point, Line and Polygon Features and Preparation of Thematic Map (using bar, pie and choropleth method)<br>Practice classes | 5<br><br>5<br><br>5<br><br>5 |
|     | <b>Sem-II (H)</b>  |                     | <b>Sem-IV (H)</b>  |                              | <b>Sem-VI (H)</b>  |                              |
|     | <b>CC3 (Theory):</b><br>Unit 1<br>1. Nature, scope and recent trends of Human Geography<br><b>CC4 (Theory)</b><br>1. Concepts of Cartograms and Thematic Maps  | 4<br><br>4          | <b>CC8 (Theory):</b><br>Unit 1<br>1. Concept and Classification of Regions<br>2. Types of Planning; Principles and Techniques of Regional Planning<br><b>SEC -2 (Practical)</b><br>1. Concept of Probability and Normal Distribution and their Geographical Applications, Skewness (Pearson's Method)<br>2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis                               | 5<br><br>5<br><br>6<br><br>1 | <b>CC14 (Theory):</b><br>Unit 2<br>1. Earthquake: Factors, vulnerability, consequences and management<br><b>DSE – 4 (Theory)</b><br>Unit: 1<br>1. Soil: Definition, Factors of Formation<br>2. Development and Characteristics of an ideal Soil Profile  | 5<br><br>5<br><br>5<br><br>5 |
|     | <b>CC3 (Theory):</b><br>Unit 1<br>1. Nature, scope and recent trends of Human Geography<br>2. Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world<br><b>CC4 (Theory)</b><br>1. Concepts of Cartograms and Thematic Maps                               | 1<br><br>3<br><br>1 | <b>CC8 (Theory):</b><br>Unit 2<br>1. Development: Meaning, Growth versus Development<br>2. Models for Regional Development: Growth Pole (Perroux) and Core Periphery (Hirschman)<br><b>SEC -2 (Practical)</b><br>1. Concept of Probability and Normal Distribution and their Geographical Applications, Skewness (Pearson's Method)  | 5<br><br>5<br><br>4          | <b>CC14 (Theory):</b><br>Unit 2<br>2. Landslide: Factors, vulnerability, consequences and management<br><b>DSE – 4 (Theory)</b><br>Unit: 1<br>3. Physical and Chemical Properties of Soil with special reference to Texture, Structure, Organic Carbon and pH<br>4. Concept of Zonal,  | 5<br><br>5<br><br>5<br><br>5 |

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|-----|---|---|--|---|--|---|
|     | 2. Concept and utility of Isopleths and Choropleth,   | 3 | 2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis  | 3 | Azonal and Intrazonal Soil; Formation and Profile Characteristics of Laterite and Podsol   |   |
| Mar | <b>CC3 (Theory):</b><br>Unit 1<br>2. Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world<br>3. Space, society and cultural regions (language and religion) | 2 | <b>CC8 (Theory):</b><br>Unit 1<br>3. Need for Regional Planning; Multilevel Planning in India<br>4. Metropolitan Concept: Metropolitan Areas, Metropolitan Region  | 5 | <b>CC14 (Practical):</b><br>Preparation of Field report  | 5 |
|     | <b>CC4 (Theory)</b><br>2. Concept and utility of Isopleths and Choropleth,<br>8. Interpretation of Land use and land cover maps   | 1 | <b>SEC -2 (Practical)</b><br>2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis   | 5 | <b>DSE – 4 (Theory)</b><br>Unit: 1<br>5. Classification of Soil: Russian and Indian (ICAR)   | 5 |
|     |   | 2 |  | 6 | 6. Soil Degradation and Management   | 5 |
|     |   | 1 |  |   |  |   |
| Apr | <b>CC3 (Theory):</b><br>Unit 1<br>3. Space, society and cultural regions (language and religion)  | 3 | <b>CC8 (Theory):</b><br>Unit 2<br>3. Model for Regional Development in India: Growth Foci (R.P.Misra)  | 5 | <b>CC14 (Practical):</b><br>Preparation of Field report  | 5 |
|     | <b>CC4 (Theory)</b><br>8. Interpretation of Land use and land cover maps  | 3 | 4. Concept of Regional Inequality and Disparity<br><b>SEC -2 (Practical)</b><br>3. Correlation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression | 5 | <b>DSE – 4 (Theory)</b><br>Unit: 2<br>1. Definition and Scope of Biogeography, Meaning of Biosphere, Ecology, Ecosystem, Environment, Communities, Habitats, Niche, Ecotone and Biotopes | 5 |
|     |   |   | 4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method  | 6 | 2. Biosphere and Energy: Laws of Energy Exchange, Food Chain, Food Web and Energy Flow   | 5 |
| May | <b>CC3 (Theory):</b><br>Unit 1<br>3. Space, society and cultural regions (language and religion)  | 1 | <b>CC8 (Theory):</b><br>Unit 2<br>5. Human Development: Significance, Indicators and Measurement   | 5 | <b>CC14 (Practical):</b><br>Preparation of Field report  | 5 |
|     | 4. Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world  | 2 | 6. Status of Regional Imbalances in India<br><b>SEC -2 (Practical)</b><br>3. Correlation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression       | 5 | <b>DSE – 4 (Theory)</b><br>Unit: 2<br>3. Bio-Geo Chemical Cycle: Carbon, Nitrogen  | 5 |
|     | <b>CC4 (Theory)</b><br>8. Interpretation of Land use and land   | 1 | 4. Time Series Analysis;   | 4 | 4. Factors of Plant Growth: Light, Heat, Moisture, Wind, Soil and Topography   | 5 |

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|      | cover maps<br><b>CC4 (Practical)</b><br>2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method. | 2 | Smoothing time series by Least Square and/or Moving Average Method   | 3 |  |   |
| June | <b>CC3 (Theory):</b><br>Unit 1<br>4. Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world                              | 3 | <b>CC8 (Theory):</b><br>Unit 2<br>7. Strategies for Regional Development in India<br>8.NITI Aayog and its Functions      | 5 | <b>CC14 (Practical):</b><br>Preparation of Field report  | 5 |
|      | <b>CC4 (Practical)</b><br>2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.               | 3 | <b>SEC -2 (Practical)</b><br>4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method | 6 | <b>DSE – 4 (Theory)</b><br>Unit: 2<br>5. Biomes – Concept and Classification;Tropical Rainforest and Temperate Grassland | 5 |
|      | Practice classes  | 6 | Practice classes   | 5 | 6. Threat to Biodiversity- Causes, Consequences and Conservation<br>Practice classes                                     | 5 |

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**DEPARTMENT OF GEOGRAPHY**  
**TEACHING PLAN OF CHAITALI GORAI**  
**Geography (Honours) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)   | No. of Lecture |
|-------|--|----------------|---|----------------|---|----------------|
| Jul   | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>5. Types of rocks, mineralogical composition of igneous rocks; Landforms on igneous rocks with special reference to Granite and Basalt.   | 4              | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 1: Elements of the Atmosphere</b><br>1. Nature, composition and layering of the atmosphere,<br>2. Insolation: controlling factors, Heat budget of the atmosphere.  | 2              | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 1: Cultural Geography</b><br>1. Definition, Scope and Content of Cultural Geography<br>2. Development of Cultural Geography                                       | 3              |
|       | <b>Practical</b><br><b>CC2 (Practical) Cartographic Techniques and Geological map study</b><br>3. Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Slope map (Wentworth), and Stream Ordering (Strahler) on a Drainage Basin. | 3              |   | 3              |   | 2              |
| Aug   | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>6. Karst landforms: Surface and sub-surface   | 3              | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 1: Elements of the Atmosphere</b><br>3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences,<br>4. Greenhouse effect and importance of ozone layer | 2              | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 1: Cultural Geography</b><br>3. Concept of Cultural Hearth, Realm; Cultural Landscape<br>4. Cultural Innovation and Diffusion; Diffusion of Major World Religions | 3              |
|       | <b>Practical</b><br><b>CC2 (Practical) Cartographic Techniques and Geological map study</b><br>3. Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Slope map (Wentworth), and   | 2              |   | 3              |   | 2              |



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|------|---|------------|--|---------------------|---|---------------------|
|      | Stream Ordering(Strahler) on a Drainage Basin.  |            |  |                     |   |                     |
| Sept | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>7. Glacial and fluvio-glacial processes and landforms                      | 4          | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification</b><br>1. Condensation: Processes and forms. Mechanism of precipitation: Bergeron-Findeisen theory, collision and coalescence. Forms of precipitation.<br>2. Air mass: Typology, origin, characteristics and modification. | 2<br><br>3          | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 1: Cultural Geography</b><br>5. Cultural Segregation, Cultural Diversity, and Acculturation<br>6. Major Races of the World: Distribution and Characteristics                  | 3<br><br>2          |
| Oct  | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>7. Glacial and fluvio-glacial processes and landforms                      | 4          | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification</b><br><br>3. Fronts: warm and cold; frontogenesis and frontolysis.<br>4. Weather: stability and instability; barotropic and baroclinic conditions.  | 2<br><br>3          | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 2: Settlement</b><br>1. Scope and Content of Settlement Geography<br>2. Definition and Characteristics of Rural Settlement  | 3<br><br>2          |
| Nov  | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>8. Aeolian and fluvio-aeolian processes and landforms.<br>Practice classes | 3<br><br>5 | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification</b><br>5. Circulation in the atmosphere: Planetary winds, jet stream and monsoons<br>6. Tropical and mid-latitude cyclones.<br>Practice classes  | 2<br><br>3<br><br>5 | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 2: Settlement GEOGRAPHY</b><br>3. Rural Settlements: Site and Situation<br>4. Urban Settlements: Census Definition, Urban Outgrowth, Urban Agglomeration.<br>Practice classes | 2<br><br>3<br><br>5 |
| Dec  | <b>Theory:</b><br><b>CC-1. GEOTECTONICS AND GEOMORPHOLOGY</b><br><b>Unit 2: Geomorphology</b><br>8. Aeolian and fluvio-aeolian processes and landforms.                     | 2          | <b>Theory</b><br><b>CC-5. Climatology</b><br><b>Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification</b><br>7. Evidences and causes of climate change<br>8. Climatic classification after   | 2<br><br>3          | <b>Theory</b><br><b>DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY</b><br><b>Unit 2: Settlement GEOGRAPHY</b><br><br>5. Urban Morphology:   | 2                   |

|            |  |                     |   |            |  |                     |
|------------|--|---------------------|---|------------|--|---------------------|
|            | Special class  | 5                   | Köppen, Thornthwaite (1948)<br>Special class  | 5          | Classical Models of Burgess, Hoyt, Harris and Ullman<br>6. Functional Classification of Cities: Harris and Nelson.<br>Special class  | 3<br><br>5          |
|            | <b>Sem-II (H)</b>  |                     | <b>Sem-IV (H)</b>   |            | <b>Sem-VI (H)</b>  |                     |
| <b>Jan</b> | <b>Theory</b><br><b>CC3 (Theory) – Human Geography</b><br><b>Unit 2: Society, Demography and Ekistics</b><br>1. Evolution of human societies: Hunting and gathering, Pastoral nomadism, Subsistence farming, Industrial and urban societies<br><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br>3. Concept, utility, and interpretation of :Climograph, Hythergraph and Ergograph<br><b>Practical</b><br><b>CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br>1. Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram | 5<br><br>2<br><br>2 | <b>Theory</b><br><b>CC 9: ECONOMIC GEOGRAPHY</b><br><b>Unit 1</b><br>1. Meaning and Approaches to Economic Geography<br>2. Concepts in Economic Geography: Goods; Services; Production; Consumption | 3<br><br>2 | <b>Theory</b><br><b>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT</b><br><b>Unit 1:</b><br>1. Definition, Scope and Content of Geography; Geography as a Spatial Science<br><br>2. Geography in Ancient Period: Greek and Roman<br><br><b>CC 14 : DISASTER MANAGEMENT</b><br><br><b>Unit 1</b><br>1. Classification of hazards and disasters | 3<br><br>2<br><br>3 |
| <b>Feb</b> | <b>Theory</b><br><b>CC3 (Theory) – Human Geography</b><br><b>Unit 2: Society, Demography and Ekistics</b><br>2. Human - environment relations with special reference to Arctic and hot desert regions<br><b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br>3. Concept, utility, and interpretation of :Climograph, Hythergraph and Ergograph  | 5<br><br>3          | <b>Theory</b><br><b>CC 9: ECONOMIC GEOGRAPHY</b><br><b>Unit 1</b><br>3. Factors Influencing Location of Economic Activity and Forces of Agglomeration<br>4. Determining Factors of Transport Cost   | 3<br><br>2 | <b>Theory</b><br><b>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT</b><br><b>Unit 1:</b><br>3. Development of Geography in Medieval period: Arabian<br><br>4. Development of Mapping and Knowledge about the World Regional Geography in the Age of Explorations<br><b>CC 14 : DISASTER MANAGEMENT</b>  | 2<br><br>3          |

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|     | <p><b>Practical</b><br/> <b>CC4 (Practical) – Cartograms, Survey and Thematic Mapping</b><br/> 1. Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram</p>   | 3 |   |   | <p><b>Unit 1</b><br/> 2. Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms</p>   | 2 |
| Mar | <p><b>Theory</b><br/> <b>CC3 (Theory) – Human Geography</b><br/> <b>Unit 2: Society, Demography and Ekistics</b><br/> 3. Population growth and distribution, population composition; demographic transition model<br/> <b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/> 4. Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid)</p> | 2 | <p><b>CC 9: ECONOMIC GEOGRAPHY</b><br/> <b>Unit 2</b><br/> 1. Concept and Classification of Economic Activities<br/> 2. Location Theories: Von Thünen and Alfred Weber</p>  | 3 | <p><b>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT</b><br/> <b>Unit 1:</b><br/> 5. Classical Geography in 19th Century: Humboldt, Ritter<br/> 6. Quantitative Revolution and its Critique<br/> <b>CC 14 : DISASTER MANAGEMENT</b><br/> <b>Unit 1</b><br/> 3. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.</p> | 2 |
| Apr | <p><b>Theory</b><br/> <b>CC3 (Theory) – Human Geography</b><br/> <b>Unit 2: Society, Demography and Ekistics</b><br/> 3. Population growth and distribution, population composition; demographic transition model<br/> <b>CC4 (Theory) – Cartograms, Survey and Thematic Mapping</b><br/> 4. Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid)</p> | 3 | <p><b>CC 9: ECONOMIC GEOGRAPHY</b><br/> <b>Unit 2</b><br/> 3. Primary Activities: Subsistence and Commercial Agriculture; Forestry; Fishing<br/> 4. Secondary Activities: Manufacturing (Iron and Steel in India and Japan, Petrochemical in India and USA)</p> | 3 | <p><b>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT</b><br/> <b>Unit 2:</b><br/> 1. German School of Thought<br/> 2. French School of Thought<br/> <b>CC 14 : DISASTER MANAGEMENT</b><br/> <b>Unit 1</b><br/> 4. Hazards mapping: Data and techniques.</p>  | 3 |
|     |  | 3 |   | 2 |   | 2 |

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|-----|--|----------------------------|--|----------------------------|---|----------------------------|
| May | <p>Theory<br/>CC3 (Theory) –<br/>Human Geography<br/>Unit 2: Society,<br/>Demography and<br/>Eksities</p> <p>4. Population-Resource<br/>regions</p> <p>CC4 (Theory) –<br/>Cartograms, Survey<br/>and Thematic<br/>Mapping</p> <p>6. Basic concepts of<br/>surveying and survey<br/>equipments: Abneys<br/>Level, Clinometer<br/>Practice classes</p> | <p>3</p> <p>2</p> <p>5</p> | <p>CC 9: ECONOMIC<br/>GEOGRAPHY<br/>Unit 2</p> <p>5. Tertiary Activities:<br/>Types of Trade and<br/>Services</p> <p>6. Agricultural Systems:<br/>Tea Plantation in India<br/>and Mixed Farming in<br/>Europe<br/>Practice classes</p> | <p>3</p> <p>2</p> <p>5</p> | <p>CC 13 :<br/>EVOLUTION OF<br/>GEOGRAPHICAL<br/>THOUGHT<br/>Unit 2:</p> <p>3. American School<br/>of Thought</p> <p>4. Indian<br/>Contribution to<br/>Geography<br/>Practice classes</p>   | <p>3</p> <p>2</p> <p>5</p> |
|     | <p>Theory<br/>CC3 (Theory) –<br/>Human Geography<br/>Unit 2: Society,<br/>Demography and<br/>Eksities</p> <p>4. Population-Resource<br/>regions</p> <p>CC4 (Theory) –<br/>Cartograms, Survey<br/>and Thematic<br/>Mapping</p> <p>6. Basic concepts of<br/>surveying and survey<br/>equipments: Abneys<br/>Level, Clinometer<br/>Practice classes</p> | <p>2</p> <p>3</p> <p>5</p> | <p>CC 9: ECONOMIC<br/>GEOGRAPHY<br/>Unit 2</p> <p>7. Highways: Roles in<br/>Economic Development<br/>of Indiasince 1990s</p> <p>8. International Trade<br/>Bloc: WTOand OPEC<br/>Practice classes</p>                                  | <p>3</p> <p>2</p> <p>5</p> | <p>CC 13 :<br/>EVOLUTION OF<br/>GEOGRAPHICAL<br/>THOUGHT<br/>Unit 2:</p> <p>5. Concept of<br/>Determinism,<br/>Possibilism and Neo-<br/>Determinism</p> <p>6. Approaches to the<br/>study of Geography:<br/>Systematic and<br/>Regional</p> <p>Practice classes</p> | <p>3</p> <p>2</p> <p>5</p> |

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**DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM**  
**TEACHING PLAN OF BAHNISIKHA GHOSH**  
**MASS COMMUNICATION AND JOURNALISM (Honours) (Jan 2021 – June 2021)**

| <b>Month</b> | <b>Sem-II (H)</b>  | <b>No. of Classes</b> | <b>Sem-IV (H)</b>  | <b>No. of Classes</b> | <b>Sem-V (H)</b>  | <b>No. of Classes</b> |
|--------------|--|-----------------------|--|-----------------------|---|-----------------------|
| JAN          | <p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 2: Indian Press – Some Major Journals and Newspapers of PreIndependence days</p> <p>Bengal Gazette and James Augustus Hickey, Samachar Darpan, Calcutta Journal and James Silk Buckingham, Sambad Kaumudi</p> <p>Remedial session</p> | 12                    | <p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit-I Ethical Framework And Media practice</p> <p>Constitution of India<br/>Indian Penal Code, 1860</p> <p>Freedom of expression<br/>Article 19(1)(a) and article 19 (2)</p> <p>Freedom of expression and defamation- Libel and slander</p> <p>Issues of privacy and Surveillance in Society</p> <p>Right to Information</p> <p>Working journalist act</p> <p>Contempt of court</p> <p>Remedial session</p> | 13                    | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step I:<br/>Ethnographic studies<br/>Participatory development<br/>Sustainable development<br/>Community outreach programme</p> <p>Problem identification<br/>Literature review</p> <p>Remedial session</p> | 9                     |

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| FEB | <p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit II: Contd.</p> <p>Samachar Chandrika, Bengal Spectator, Parthenon , Gyananweshan , SambadPravakar , Yugantar</p> <p>Remedial session</p> | 10 | <p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit 2: Media Technology and Ethical Parameters</p> <p>Live reporting and ethics<br/>Legality<br/>Ethicality of Sting Operations,<br/>Discussion of Important cases-eg-Operation Westend<br/>Phone Tapping etc<br/>Ethical issues in Social media (IT Act 2000, Sec66A and the verdict of The supreme court)<br/>Some Related laws-<br/>Relevant sections of Broadcast Bill, NBA guidelines</p> <p>Remedial session</p> | 14 | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step II:</p> <p>Research question<br/>Hypothesis<br/>Research design<br/>Remedial session</p> | 7 |
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|-------|--|---|--|----|---|---|
| MAR   | <p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3:</p> <p>Role of Derozio ,</p> <p>Sishir Basu &amp; Amritabazar Patrika ,</p> <p>Harish Chandra Mukhopadhyay &amp; Hindoo Patriot</p> <p>Remedial session</p>    | 9 | <p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 3- Representation and ethics</p> <p>Advertisement and Women Pornography</p> <p>Related Laws and case studies: Indecent Representation D12:D13of Women (Prohibition) Act, 1986 and rules1987, Protection of Women against Sexual Harassment Bill,2007, Sec67 of ITAct 2000 and Section 292, 293, 294 of IPC</p> <p>Remedial session</p> | 15 | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step III:</p> <p>Data collection:</p> <p>Survey</p> <p>Focus group discussion</p> <p>Personal interview</p> <p>Remedial session</p> | 7 |
| APRIL | <p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3: Contd.</p> <p>Brahmabandhab Upadhyay,</p> <p>Raja Rammohan Roy,</p> <p>Gandhiji as a political communicator, journalist and editor</p> <p>Remedial session</p> | 9 | <p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 4: Media and Regulation</p> <p>Regulatory bodies, Codes and Ethical Guidelines</p> <p>Self Regulation</p> <p>MediaContent- DebatesonmoralityandAccountability: Taste,CultureandTaboo</p> <p>Censorship and media debates</p> <p>Remedial session</p>   | 13 | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step IV:</p> <p>Data presentation through pie chart, bar chart etc</p> <p>Data analysis</p> <p>Remedial session</p>                 | 7 |

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| MAY | <p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>UNIT 2:<br/>Interviewing/Types of news leads</p> <p>Interviewing: doing the research, setting up the interview, conducting the interview</p> <p>News Leads/intros,</p> <p>Structure of the News Story–Inverted Pyramid style;</p> <p>Lead: importance, types of lead; body of the story;</p> <p>Attribution, verification</p> <p>Remedial session</p> | 11 | <p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 5: Media and Social Responsibility</p> <p>Economic Pressures</p> <p>Media reportage of marginalized sections- children, dalits, tribals,</p> <p>Gender Media coverage of violence and related laws - inflammatory writing(IPC353)</p> <p>Sedition- incitement to violence, hate speech.</p> <p>RelevantCaseStudies on defamation, contempt of court</p> <p>Remedial session</p> | 14 | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step V:</p> <p>Objective wise data interpretation</p> <p>Findings<br/>Conclusion<br/>Further Suggestion</p> <p>Remedial session</p> | 6 |
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| JUNE | <p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>Unit II: Contd.</p> <p>Articles, features, types of features and human interest stories, leads for features, difference between articles and features.</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p> | 10 | <p>Mock test:</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p> <p>Mock test 3 of 60 marks and question discussion after Mock test</p> <p>Mock test 4 of 60 marks and question discussion after Mock test</p> <p>Mock test 5 of 60 marks and question discussion after Mock test</p> | 10 | <p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step VI:</p> <p>Sorting out references<br/>Report Presentation</p> | 7 |
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DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM  
TEACHING PLAN OF BAHNISIKHA GHOSH  
MASS COMMUNICATION AND JOURNALISM (Honours) (July 2020 – Dec 2020)

| Month | Sem-I (H)   | No. of Classes | Sem-III (H)   | No. of Classes | Sem-V (H)  | No. of Classes |
|-------|---|----------------|---|----------------|--|----------------|
| JULY  | <p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Definition of Communication and its Process</p> <p>Forms of Communication: Verbal and Non-verbal Communication</p> <p>Levels of communication: Intra, Inter, Group, Organizational</p> <p>Remedial session</p> | 9              | <p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit I: Development of Radio</p> <p>Concept of wireless communication, Electromagnetic wave</p> <p>Radio's characteristics as an audio medium</p> <p>Evolution of radio in India and around the world</p> <p>AIR and its role a medium of mass communication , AIR, BBC,VOA-management and comparative profile , Internet radio, HAM</p> <p>Radio</p> <p>Remedial session</p> | 11             | <p>Theory:</p> <p>DSE 1: Communication Research &amp; Methodology</p> <p>Unit I: Introduction to Research concept of research and it's methodology</p> <p>Communication research</p> <p>Basic and Applied Research, scientific approach, Role of Theory in research, Steps of Research: Research question Hypothesis Literature Review Research Design Data Collection Data presentation Data analysis</p> <p>Remedial session</p> | 11             |

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| AUG | <p>Theory:<br/> CC2: Introduction to Media and Communication<br/> Unit II: Communication and Mass Communication<br/> Levels of communication:<br/> Public Communication, Mass line Communication, Mass Communication and its Process<br/> Model vs Theory (Linear to Non-linear)<br/> Aristotle's Model of Communication<br/> Laswell Model<br/> Shanon Weaver Model<br/> SMCR Model<br/> Wilbur Schramm model<br/> Remedial session</p> | 11 | <p>Theory:<br/> CC 5: Introduction to Broadcast Media: Radio<br/> Unit 2- Radio news<br/> Types of radio news bulletins and their structures,<br/> Style and presentation of Radio news ,<br/> News reader- qualities and duties ,<br/> Radio newsroom- structure and function ,<br/> OB VAN, News production, Live broadcasting,<br/> News Service Division<br/> Remedial session</p> | 14 | <p>Theory:<br/> DSE 1: Communication Research &amp; Methodology<br/> Unit II: Methods of Media Research<br/> Variables and its types<br/> Qualitative- Quantitative Technique, Content Analysis, Survey Method,<br/> Observation Methods, Experimental Studies, Case Studies,<br/> Narrative Analysis, Historical research.<br/> Remedial session</p> | 13 |
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| SEPT | <p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Normative Theories of the Press:<br/>         Authoritarian theory<br/>         Libertarian theory<br/>         Communist media theory<br/>         Social responsibility theory</p> <p>Media and the Public Sphere: Formation of public sphere (State, market and civil society) And the formation of public opinion</p> <p>Remedial session</p> | 9 | <p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 3: Radio Programme</p> <p>Radio interview,<br/>         Types format of the interview,<br/>         Panel discussion,<br/>         Radio talk, Radio features, Radio package,<br/>         Illustrated reading, Storytelling</p> <p>Remedial Session</p> | 12 | <p>Theory:</p> <p>DSE 1: Communication Research &amp; Methodology</p> <p>Unit III: Sampling</p> <p>Sampling, Need for Sampling, Representativeness of the Samples,<br/>         Universe and Population Sampling Methods, Probability sampling and its types</p> <p>Non probability sampling and its types</p> <p>Sampling Error and Non sampling Error</p> <p>Remedial session</p> | 11 |
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| OCT | <p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Yellow journalism<br/>Penny press<br/>Tabloid press</p> <p>Reporters-Print to electronic to digitalization</p> <p>Remedial session</p> | 7 | <p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Radio Production &amp; editing</p> <p>Art of scripting,</p> <p>Uses, norms of microphones, different forms of microphones,</p> <p>Acoustic treatment of audio studio</p> <p>Remedial session</p> | 9 | <p>Theory:</p> <p>DSE 1: Communication Research &amp; Methodology</p> <p>Unit II: Contd.</p> <p>Tools of data collection: Primary and Secondary data-</p> <p>Questionnaire: Open and close-ended question</p> <p>Focus Group<br/>Discussion<br/>Interview<br/>Fieldwork through Surveys,</p> <p>Telephonic surveys, Online Polls, Published and Unpublished work.</p> <p>Remedial session</p> | 8 |
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| NOV | <p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Citizen journalism-from letter to the editor to WhatsApp</p> <p>Robert Gunning: Principles of clear writing</p> <p>Rudolf Flesch: Readability Test</p> <p>Remedial session</p> | 9 | <p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Contd.</p> <p>Digital editing- sound card etc ,</p> <p>Uses of Sound effects, Digital Editing consoles, audio mixing techniques</p> <p>Digital editing through Sound Wrap- up, crossfade ,</p> <p>Editor &amp; Editing- dos and don'ts ,</p> <p>Production and post-production,</p> <p>Radio programme budget</p> <p>Remedial session</p> | 13 | <p>Theory:</p> <p>DSE 1: Communication Research &amp; Methodology</p> <p>Unit IV: Methods of Analysis and report writing</p> <p>Data Analysis Techniques; Coding and Tabulation, Non-Statistical Methods: Descriptive and Historical Method</p> <p>Working with Archives</p> <p>Library Research</p> <p>Working with the Internet as a source</p> <p>Writing Citations, Bibliography</p> <p>Writingtheresearchreport</p> <p>Remedial session</p> | 12 |
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| DEC | <p>Theory:<br/>CC1: Introduction to Journalism<br/>Unit III: Understanding the Structure and Construction of News<br/>Organising a news story, Inverted pyramid (5W's and 1H)<br/>Criteria for newsworthiness, Principles of news selection<br/>Use of archives, sources of news, use of internet<br/>Mock test 1 of 60 marks and question discussion after Mock test<br/>Mock test 2 of 60 marks and question discussion after Mock test</p> | 5 | <p>Theory:<br/>CC 5: Introduction to Broadcast Media: Radio<br/>Unit 5: FM broadcasting Emergences of Public &amp; Private FM in India, Format of FM<br/>Programme Popularity and acceptance of FM among the audience, Market potentiality of FM programme,<br/>Radio in rural India<br/>Community radio- scope and applications<br/>Community Radio in India, Nepal &amp; Bangladesh,<br/>Content and coverage of rural based programme in Radio<br/>Mock test 1 of 60 marks and question discussion after Mock test<br/>Mock test 2 of 60 marks and question discussion after Mock test</p> | 11 | <p>Theory:<br/>DSE 1: Communication Research &amp; Methodology<br/>Unit V: Ethnographies and other Methods<br/>Readership and Audience Surveys<br/>Ethnographies, textual analysis, discourse analysis<br/>Ethical Perspectives of mass media research<br/>Mock test 1 of 60 marks and question discussion after Mock test<br/>Mock test 2 of 60 marks and question discussion after Mock test</p> | 12 |
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**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF PROF DEBARATI CHANDRA**  
English (Honours) (2021-22) (1.7.21-30.6.2022)

| Month | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture      |
|-------|--|----------------|---|----------------|--|---------------------|
| Jul   | Theory:<br>CC1: Indian Classical Literature Introduction | 4              | CC6: Popular Literature<br>Unit 1:<br>Introduction to Detective Fiction,<br>Agatha Christie | 4+5            | CC11: Women's Writing  | 6                   |
|       | Unit 2:<br>Kadambari (Introduction and text)             | 4              | Text of The Murder of Roger Ackroyd   |                | Sylvia Plath : Daddy<br><br>Emily Dickinson<br>I Can not Live With You<br><br>I'm Wife, I've Finished That |                     |
| Aug   | Kadambari: Text and Annotations                          | 10             | Text of The Murder of Roger Ackroyd continued   | 5+5            | CC11: Women's Writing<br>Eunice De Souza<br>Advice to Women<br>Request                                     | 6                   |
|       |  |                |   |                | DSE 1<br>Rabindranath Tagore<br>Gora<br>Introduction   | 6                   |
| Sept  | CC1: Kadambari (continued)                               | 8              | Text of The Murder of Roger Ackroyd continued   | 10             | Gora<br>Text and Annotation  | 12                  |
|       |  |                |   |                |  |                     |
| Oct   | CC1: Kadambari (completed)                               | 8              | Discussion on Various topics and issues on The Murder of Roger                              | 10             | Gora<br>discussed  | Analyzed, and<br>12 |



|     |   |     | Ackroyd  |                | Completed  |                     |
|-----|---|-----|--|----------------|--|---------------------|
| Nov | CC2: Classical European Literature<br>Unit: I: Iliad<br>Introduction and text                               | 4+4 | British Drama Renaissance Period<br><br>Thomas Dekker<br>Shoemaker's Holiday   | 5<br><br>5     | DSE-2A:<br>Fiction Literature<br><br>Allen's Own House<br><br>The Flood Solution<br><br>Toba Tek Singh | 4<br><br>5<br><br>5 |
| Dec | CC2: Iliad (continued)  | 8   | Thomas Dekker<br>Shoemaker's Holiday   |                | A Leaf in The Storm  | 4                   |
|     | CC2: Iliad (completed)  | 8   |  | 5              |  |                     |
|     | Sem-II (H)  |     | Sem-IV (H)   |                | Sem-VI (H)   |                     |
| Jan | CC3: Indian Writing in English<br>Unit 3: Indian English Drama (Introduction)<br>(Bravely Fought the Queen) | 2+4 | CC3: 17 <sup>th</sup> C British Literature<br>Restoration Theatre<br>Courtesy of Manners<br><br>The Way of the World<br>William Congreve | 4+6<br><br>3+3 | DSE 4<br>Literary Criticism<br>Philip Sidney<br>John Dryden<br>Alexander Pope                          | 10<br>10<br>5       |

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|      | CCA Unit<br>(Part)       | 4 | CCSE<br>Read Thru - Introduction                               | 2      | Literary Theories<br>Topic Research | 10 |
|      | John Donne<br>Makropulos |   | Read Thru on<br>Text and Annotations                           | 4<br>4 |                                     |    |
| May  | Revision                 | 4 |  |        |                                     |    |
| June |                          |   | SEC 2: Film Studies<br>Unit 5: Adaptation and<br>Appropriation | 2      | Revision                            | 8  |
|      |                          |   | Revision   | 2      |                                     |    |

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 Head of the Department,  
 Department of English,  
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02-03-2021

Principal  
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## DEPARTMENT OF ARABIC

### TEACHING PLAN OF WASIM REJA Arabic (Honours)&Gen (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)G  | No. of Lecture  | Sem-III (H)G   | No. of Lecture | Sem-V (H)G   | No. of Lecture |
|-------|---|---|--|----------------|--|----------------|
| Jul   | <b>Theory:</b><br><b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br>Unit 1: Pre-Islamic Period (500-622 A. D. | 4   | <b>Theory</b><br><b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br>Unit:4 A poetry of Abbas bin Mirdas from Hamasa                  | 4              | <b>Theory</b><br><b>CC11: Prose (Modern Period unit 1)</b><br>Unit 2: Marta al Bania                 | 5              |
|       | CC2:Arabic Prose (Islamic & Medieval) (Part-A)<br>Unit :1 Tarjama Surah Hjrāt<br>Unit :3 Sahih Hadith                                       | 4   | CC7: History of Arabic Literature in Egypt:<br>Unit: A,B&C   | 5              | CC12: Poetry (Modern Period unit 1)<br><b>Unit 3: Ustaj Md. Abduhu</b>                               | 5              |
|       |   |   | SEC1: Translation & Composition ( on the basis of Grammatical rules) UNIT: 1   | 2              | <b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b><br><b>Unit 1: History of Islam</b> | 2              |
|       | <b>Theory:</b><br><b>GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br>Unit 1: Pre-Islamic Period (500-622 A. D. | 2   | <b>Theory:</b><br><b>CC1C: Prose :(Islamic medieval &amp; modern period)</b><br><b>Unit :6 Sura Hujrat</b><br><b>Unit:7 Sahih Hadith</b> | 3              | <b>Theory:</b><br><b>SEC3: Specific literary feature of modern Arabic Literature</b>                 | 2              |
|       |   | SEC1: Grammar ,translation & latter writing<br>Unit 1 | 2  |                |  |                |
| Aug   | <b>Theory:</b><br><b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br>Unit 1: Pre-Islamic Period (500-622 A. D. | 4   | <b>Theory</b><br><b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br>Unit:4 A poetry of Abbas bin Mirdas from Hamasa                  | 4              | <b>Theory</b><br><b>CC11: Prose (Modern Period unit 1)</b><br>Unit 2: Marta al Bania                 | 3              |
|       | CC2:Arabic Prose (Islamic & Medieval) (Part-A)<br>Unit :1 Tarjama Surah Hjrāt<br>Unit :3 Sahih Hadith                                       | 3   | CC7: History of Arabic Literature in Egypt:<br>Unit: A,B&C   | 6              | CC12: Poetry (Modern Period unit 1)<br><b>Unit 3: Ustaj Md. Abduhu</b>                               | 4              |
|       |   |   | SEC1: Translation & Composition ( on the basis of Grammatical rules) UNIT: 1   | 2              | <b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b><br><b>Unit 1: History of Islam</b> | 3              |
|       | <b>Theory:</b><br><b>GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br>Unit 1: Pre-Islamic Period (500-622 A. D. | 3   | <b>Theory:</b><br><b>CC1C: Prose :(Islamic medieval &amp; modern period)</b><br><b>Unit :6 Sura Hujrat</b><br><b>Unit:7 Sahih Hadith</b> | 1              | <b>Theory:</b><br><b>SEC3: Specific literary feature of modern Arabic Literature</b>                 | 2              |
|       |   | SEC1: Grammar ,translation & latter writing<br>Unit 1 | 1  |                |  |                |
| Sept  | <b>Theory:</b><br><b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br>Unit 1: Pre-Islamic Period (500-622 A. D. | 4   | <b>Theory</b><br><b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br>Unit:4 A poetry of Abbas bin Mirdas from Hamasa                  | 4              | <b>Theory</b><br><b>CC11: Prose (Modern Period unit 1)</b><br>Unit 2: Marta al Bania                 | 4              |
|       | CC2:Arabic Prose (Islamic & Medieval) (Part-A)<br>Unit :1 Tarjama Surah Hjrāt<br>Unit :3 Sahih Hadith                                       | 4   | CC7: History of Arabic Literature in Egypt:<br>Unit: A,B&C   | 5              | CC12: Poetry (Modern Period unit 1)<br><b>Unit 3: Ustaj Md. Abduhu</b>                               | 4              |
|       |   |   | SEC1: Translation & Composition ( on the basis of Grammatical rules) UNIT: 1   | 2              | <b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b><br><b>Unit 1: History of Islam</b> | 2              |

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|     | <p><b>Theory:</b><br/> <b>GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 3 | <p><b>Theory:</b><br/> <b>CC1C: Prose :(Islamic medieval &amp; modern period)</b> 2<br/> <b>Unit :6 Sura Hujrat</b><br/> <b>Unit:7 Sahih Hadith</b></p> <p><b>SEC1:</b> Grammar ,translation &amp; latter writing<br/> Unit 1 1</p> | <p><b>Theory:</b><br/> <b>SEC3: Specific literary feature of modern Arabic Literature</b> 2</p> |   |
| Oct | <p><b>Theory:</b><br/> <b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 3 | <p><b>Theory</b><br/> <b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br/> Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt:<br/> Unit: A,B&amp;C</p>                          | 3   | <p><b>Theory</b><br/> <b>CC11: Prose (Modern Period unit 1)</b> 3<br/> Unit 2: Marta al Bania</p> <p>CC12: Poetry (<b>Modern Period unit 1</b>) 3<br/> <b>Unit 3: Ustaj Md. Abduhu</b></p>    |
|     | <p>CC2:Arabic Prose (Islamic &amp; Medieval) (Part-A)<br/> Unit :1 Tarjama Surah Hjrat<br/> Unit :3 Sahih Hadith</p>                                   | 3 | <p>SEC1: Translation &amp; Composition ( on the basis of Grammatical rules) UNIT: 1</p>   | 1   | <p><b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b> 3<br/> <b>Unit 1: History of Islam</b></p>   |
|     | <p><b>Theory:</b><br/> <b>GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 2 | <p><b>Theory:</b><br/> <b>CC1C: Prose :(Islamic medieval &amp; modern period)</b><br/> <b>Unit :6 Sura Hujrat</b><br/> <b>Unit:7 Sahih Hadith</b></p> <p><b>SEC1:</b> Grammar ,translation &amp; latter writing<br/> Unit 1</p>     | 1   | <p><b>Theory:</b><br/> <b>SEC3: Specific literary feature of modern Arabic Literature</b> 2</p>   |
| Nov | <p><b>Theory:</b><br/> <b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 4 | <p><b>Theory</b><br/> <b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br/> Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt:<br/> Unit: A,B&amp;C</p>                          | 4   | <p><b>Practical</b><br/> <b>CC11: Prose (Modern Period unit 1)</b> 3<br/> Unit 2: Marta al Bania</p> <p>CC12: Poetry (<b>Modern Period unit 1</b>) 4<br/> <b>Unit 3: Ustaj Md. Abduhu</b></p> |
|     | <p>CC2:Arabic Prose (Islamic &amp; Medieval) (Part-A)<br/> Unit :1 Tarjama Surah Hjrat<br/> Unit :3 Sahih Hadith</p>                                   | 4 | <p>SEC1: Translation &amp; Composition ( on the basis of Grammatical rules) UNIT: 1</p>   | 2   | <p><b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b> 4<br/> <b>Unit 1: History of Islam</b></p>   |
|     | <p><b>Theory:</b><br/> <b>GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 4 | <p><b>Theory:</b><br/> <b>CC1C: Prose :(Islamic medieval &amp; modern period)</b><br/> <b>Unit :6 Sura Hujrat</b><br/> <b>Unit:7 Sahih Hadith</b></p> <p><b>SEC1:</b> Grammar ,translation &amp; latter writing<br/> Unit 1</p>     | 1   | <p><b>Theory:</b><br/> <b>SEC3: Specific literary feature of modern Arabic Literature</b> 3</p>   |
| Dec | <p><b>Theory:</b><br/> <b>CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period</b><br/> Unit 1: Pre-Islamic Period (500-622 A. D.</p> | 3 | <p><b>Theory</b><br/> <b>CC5:</b> Unit:3 Two poetry of Hassan bin Thabit.<br/> Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt:<br/> Unit: A,B&amp;C</p>                          | 3   | <p><b>Theory</b><br/> <b>CC11: Prose (Modern Period unit 1)</b> 4<br/> Unit 2: Marta al Bania</p> <p>CC12: Poetry (<b>Modern Period unit 1</b>) 3<br/> <b>Unit 3: Ustaj Md. Abduhu</b></p>    |
|     | <p>CC2:Arabic Prose (Islamic &amp; Medieval) (Part-A)<br/> Unit :1 Tarjama Surah Hjrat</p>   | 4 | <p>SEC1: Translation &amp; Composition ( on the basis of Grammatical rules) UNIT: 1</p>   | 2   | <p><b>DSE1: History of Islam, Rhetoric, Prosody, &amp; Philology</b> 2</p>  |

Unit :3 Sahih Hadith

**Theory:**  
**GE1: A. Hist. of Arabic Literature (from Pre-Islamic to Umayyad Period**

Unit 1: Pre-Islamic Period (500-622 A. D.

2

**Theory:**  
**CC1C: Prose :(Islamic medieval & modern period) 2**  
**Unit :6 Sura Hujrat**  
**Unit:7 Sahih Hadith**

**SEC1:** Grammar ,translation & latter writing  
Unit 1 1

### Sem-II (H)G

**Theory:**  
**CC3:** History of Arabic Literature (Abbasid Period & Indian Arabic Lit.),Gram. &Trans . :  
A.Hist. of Arabic Lit. ( Abbasid Period -750-1258) & Indian Arabic Lit.)  
Unit : a) & b)

4

**CC4:** Arabic Prose ( Islamic & Medieval ) (Part-B)  
Unit 1: خطبة عمر (رض) في الحكم (khutbah umar)  
Unit 3: القضاء و القدر: (al kada wa al kadar)

4

**Theory:**  
**GE2:** A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation  
Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan

3

**Theory**  
**CC3:** History of Arabic Literature (Abbasid Period & Indian Arabic Lit.),Gram. &Trans . :  
A.Hist. of Arabic Lit. ( Abbasid Period -750-1258) & Indian Arabic Lit.)  
Unit : a) & b)

3

**CC4:** Arabic Prose ( Islamic & Medieval ) (Part-B)  
Unit 1: خطبة عمر (رض) في الحكم  
Unit 3: القضاء و القدر

3

**Theory:**  
**GE2:** A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation  
Abbasid Period : (1) PROSE Literature with special reference to Ibn-

Jan

Feb

### Sem-IV (H)G

**Theory:**  
**CC8:** Poetry (Abbasid & Fatimid) المتنبّي نعد المشرفية والعوالي 2)  
**(Poetry of Mutanabbi)**  
**CC9:** History of Arabic Literature (North & South America/Adabul Mahjar ) & Grammar + Translation  
1- History of Mahjarite literature in North+South America /Adabul Mahjar A

4

3

**CC10:** Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups  
**A & B**

5

**SEC2:** Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill:  
**1)**

2

**Theory:**  
**CC1D:** Poetry : (Islamic, medieval, & Modern Period) )  
1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم  
الحماسة العباس بن مرداس السلمي 5)

2

2

**SEC2:** Grammar ,translation & latter writing  
Unit-a)

**Theory**  
**CC8:** Poetry (Abbasid & Fatimid) المتنبّي نعد المشرفية والعوالي 2)  
**(Poetry of Mutanabbi)**

3

**CC9:** History of Arabic Literature (North & South America/Adabul Mahjar ) & Grammar + Translation  
1- History of Mahjarite literature in North+South America /Adabul Mahjar A

4

2

**CC10:** Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups  
**A & B**

2

**SEC2:** Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill:  
**2**

**Theory:**  
**CC1D:** Poetry : (Islamic, medieval, & Modern Period)  
1) حسان بن ثابت وقال يرثي النبي صلى الله

### Unit 1: History of Islam

**Theory:**  
**SEC3: Specific literary feature of modern Arabic Literature 2**

### Sem-VI (H)G

**Theory:**  
**CC13:** Prose ( Modern Period Unit -II)  
الثقافة الهندية أحمد أمين 3)

4

**CC14:** Poetry ( Modern Period Unit -II)  
صلوات في هيكل الحب أبو 4)  
القاسم الشابي

3

**Theory:**  
**DSE3:** Outline History of Modern Arab World & Composition  
Group-A

2

DSE-1B Outline History of Modern Arab World

2

**Theory**  
**CC13:** Prose ( Modern Period Unit -II)  
الثقافة الهندية أحمد أمين 3)

3

**CC14:** Poetry ( Modern Period Unit -II)  
صلوات في هيكل الحب أبو 4)  
القاسم الشابي

3

**Theory:**  
**DSE3:** Outline History of Modern Arab World & Composition  
Group-A

3

DSE-1B Outline History of Modern Arab World

2

|            |   |   |  |  |
|------------|---|---|--|--|
|            | ul-Muqaffa , Al-Jahiz,<br>Al-Hariri and Al-<br>Hamazan 2  | عليه وسلم<br>الحماسة العباس بن مرداس السلمي<br>5)<br><b>SEC2:</b> Grammar ,translation &<br>latter writing<br>Unit-a)   |  |  |
|            | <b>Theory</b><br><b>CC3:</b> History of Arabic<br>Literature (Abbasid<br>Period & Indian Arabic<br>Lit.),Gram. &Trans . :<br>A.Hist. of Arabic Lit. (<br>Abbasid Period -750-<br>1258) & Indian Arabic<br>Lit.)<br>Unit : a) & b)<br>CC4: Arabic Prose (<br>Islamic & Medieval )<br>(Part-B)<br>Unit 1: خطبة عمر (رض) في<br>الحكم<br>Unit 3: القضاء و القدر | <b>Theory:</b><br><b>CC8:</b> Poetry (Abbasid & Fatimid)<br>2) المتنبّي نعد المشرقية والعوالي<br>( <b>Poetry of Mutanabbi</b> )<br><br>CC9: History of Arabic Literature<br>(North & South America/Adabul<br>Mahjar ) & Grammar + Translation<br>1- History of Mahjarite literature in<br>North+South America /Adabul<br>Mahjar A<br><br><b>CC10:</b> Development ofModern<br>Arabic Novel, short-story, Drama<br>& Formation of Literary Groups<br><b>A &amp; B</b><br><br><b>SEC2:</b> Translation &<br>Interpretation (from English into<br>Arabic & vice versa from News<br>papers) & Communicative Skill:<br>1)<br><br><b>Theory:</b><br>CC1D: Poetry : (Islamic,<br>medieval, & Modern Period)<br>حسان بن ثابت وقال يرثي النبي صلى الله<br>عليه وسلم<br>الحماسة العباس بن مرداس السلمي<br>5)<br>2<br><b>SEC2:</b> Grammar ,translation &<br>latter writing<br>Unit-a) 2 | <b>Theory</b><br><b>CC13:</b> Prose ( Modern<br>Period Unit -II) 3<br>الثقافة الهندية أحمد أمين 3)<br><br><b>CC14:</b> Poetry ( Modern<br>Period Unit -II) 3<br>صلوات في هيكل الحب أبو 4)<br>القاسم الشابي |  |
| <b>Mar</b> | <b>Theory:</b><br>GE2: A. History of<br>Arabic Literature<br>(Abbasid Period, 750-<br>1258 A.D.) , Grammar &<br>Translation<br>Abbasid Period : (1)<br>PROSE Literature with<br>special reference toIbn-<br>ul-Muqaffa , Al-Jahiz,<br>Al-Hariri and Al-<br>Hamazan  | <b>SEC2:</b> Translation &<br>Interpretation (from English into<br>Arabic & vice versa from News<br>papers) & Communicative Skill:<br>1)<br><br><b>Theory:</b><br>CC1D: Poetry : (Islamic,<br>medieval, & Modern Period)<br>حسان بن ثابت وقال يرثي النبي صلى الله<br>عليه وسلم<br>الحماسة العباس بن مرداس السلمي<br>5)<br>2<br><b>SEC2:</b> Grammar ,translation &<br>latter writing<br>Unit-a) 2   | <b>Theory:</b><br><b>DSE3:</b> Outline History of<br>Modern Arab World &<br>Composition<br>Group-A 3<br><br>DSE-1B Outline History<br>of Modern Arab World 2   |  |
|            | <b>Theory</b><br><b>CC3:</b> History of Arabic<br>Literature (Abbasid<br>Period & Indian Arabic<br>Lit.),Gram. &Trans . :<br>A.Hist. of Arabic Lit. (<br>Abbasid Period -750-<br>1258) & Indian Arabic<br>Lit.)<br>Unit : a) & b)<br>CC4: Arabic Prose (<br>Islamic & Medieval )<br>(Part-B)<br>Unit 1: خطبة عمر (رض) في<br>الحكم<br>Unit 3: القضاء و القدر | <b>Theory</b><br><b>CC8:</b> Poetry (Abbasid & Fatimid)<br>2) المتنبّي نعد المشرقية والعوالي<br>( <b>Poetry of Mutanabbi</b> )<br><br>CC9: History of Arabic Literature<br>(North & South America/Adabul<br>Mahjar ) & Grammar + Translation<br>1- History of Mahjarite literature in<br>North+South America /Adabul<br>Mahjar A<br><br><b>CC10:</b> Development ofModern<br>Arabic Novel, short-story, Drama<br>& Formation of Literary Groups<br><b>A &amp; B</b><br><br><b>SEC2:</b> Translation &<br>Interpretation (from English into<br>Arabic & vice versa from News<br>papers) & Communicative Skill:<br>1)<br><br><b>Theory:</b><br>CC1D: Poetry : (Islamic,<br>medieval, & Modern Period)<br>حسان بن ثابت وقال يرثي النبي صلى الله<br>عليه وسلم<br>الحماسة العباس بن مرداس السلمي<br>5)<br>2<br><b>SEC2:</b> Grammar ,translation &<br>latter writing<br>Unit-a) 2  | <b>Theory</b><br><b>CC13:</b> Prose ( Modern<br>Period Unit -II) 3<br>الثقافة الهندية أحمد أمين 3)<br><br><b>CC14:</b> Poetry ( Modern<br>Period Unit -II) 3<br>صلوات في هيكل الحب أبو 4)<br>القاسم الشابي |  |
| <b>Apr</b> | <b>Theory:</b><br>GE2: A. History of<br>Arabic Literature<br>(Abbasid Period, 750-<br>1258 A.D.) , Grammar &<br>Translation<br>Abbasid Period : (1)<br>PROSE Literature with<br>special reference toIbn-<br>ul-Muqaffa , Al-Jahiz,<br>Al-Hariri and Al-<br>Hamazan  | <b>SEC2:</b> Translation &<br>Interpretation (from English into<br>Arabic & vice versa from News<br>papers) & Communicative Skill:<br>1)<br><br><b>Theory:</b><br>CC1D: Poetry : (Islamic,<br>medieval, & Modern Period)<br>حسان بن ثابت وقال يرثي النبي صلى الله<br>عليه وسلم<br>الحماسة العباس بن مرداس السلمي<br>5)<br>2<br><b>SEC2:</b> Grammar ,translation &<br>latter writing<br>Unit-a) 2   | <b>Theory:</b><br><b>DSE3:</b> Outline History of<br>Modern Arab World &<br>Composition<br>Group-A 3<br><br>DSE-1B Outline History<br>of Modern Arab World 2   |  |
| <b>May</b> | <b>Theory</b>   | <b>Theory</b>   | <b>Theory</b>  |  |

|   |   |  |
|---|---|--|
| <p><b>CC3:</b> History of Arabic Literature (Abbasid Period &amp; Indian Arabic Lit.), Gram. &amp; Trans . :<br/>A.Hist. of Arabic Lit. ( Abbasid Period -750-1258) &amp; Indian Arabic Lit.)<br/>Unit : a) &amp; b)<br/><b>CC4:</b> Arabic Prose ( Islamic &amp; Medieval ) (Part-B)<br/>Unit 1: خطبة عمر (رض) في الحكم<br/>Unit 3: القضاء و القدر</p> <p>Theory:<br/>GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar &amp; Translation<br/>Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan</p> | <p><b>CC8:</b> Poetry (Abbasid &amp; Fatimid)<br/>2) المتنبي نعت المشرفية والحوالي<br/><b>(Poetry of Mutanabbi)</b></p> <p><b>CC9:</b> History of Arabic Literature (North &amp; South America/Adabul Mahjar ) &amp; Grammar + Translation<br/>1- History of Mahjarite literature in North+South America /Adabul Mahjar A</p> <p><b>CC10:</b> Development of Modern Arabic Novel, short-story, Drama &amp; Formation of Literary Groups<br/><b>A &amp; B</b></p> <p><b>SEC2:</b> Translation &amp; Interpretation (from English into Arabic &amp; vice versa from News papers) &amp; Communicative Skill:<br/><b>1)</b></p> <p><b>Theory:</b><br/>CC1D: Poetry : (Islamic, medieval, &amp; Modern Period)<br/>1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم<br/>5) الحماسة العباس بن مرداس السلمي<br/><b>SEC2:</b> Grammar ,translation &amp; latter writing<br/>Unit-a)</p>                   | <p><b>CC13:</b> Prose ( Modern Period Unit -II)<br/>الثقافة الهندية أحمد أمين 3)</p> <p><b>CC14:</b> Poetry ( Modern Period Unit -II)<br/>4) صلوات في هيكال الحب أبو القاسم الشابي</p> <p><b>Theory:</b><br/><b>DSE3:</b> Outline History of Modern Arab World &amp; Composition<br/>Group-A</p> <p>DSE-1B Outline History of Modern Arab World</p>                    |
| <p><b>Theory</b><br/><b>CC3:</b> History of Arabic Literature (Abbasid Period &amp; Indian Arabic Lit.), Gram. &amp; Trans . :<br/>A.Hist. of Arabic Lit. ( Abbasid Period -750-1258) &amp; Indian Arabic Lit.)<br/>Unit : a) &amp; b)<br/><b>CC4:</b> Arabic Prose ( Islamic &amp; Medieval ) (Part-B)<br/>Unit 1: خطبة عمر (رض) في الحكم<br/>Unit 3: القضاء و القدر</p>   | <p><b>Theory</b><br/><b>CC8:</b> Poetry (Abbasid &amp; Fatimid)<br/>2) المتنبي نعت المشرفية والحوالي<br/><b>(Poetry of Mutanabbi)</b></p> <p><b>CC9:</b> History of Arabic Literature (North &amp; South America/Adabul Mahjar ) &amp; Grammar + Translation<br/>1- History of Mahjarite literature in North+South America /Adabul Mahjar A</p> <p><b>CC10:</b> Development of Modern Arabic Novel, short-story, Drama &amp; Formation of Literary Groups<br/><b>A &amp; B</b></p> <p><b>SEC2:</b> Translation &amp; Interpretation (from English into Arabic &amp; vice versa from News papers) &amp; Communicative Skill:<br/><b>1)</b></p> <p><b>Theory:</b><br/>CC1D: Poetry : (Islamic, medieval, &amp; Modern Period)<br/>1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم<br/>5) الحماسة العباس بن مرداس السلمي<br/><b>SEC2:</b> Grammar ,translation &amp; latter writing<br/>Unit-a)</p> | <p><b>Theory:</b><br/><b>CC13:</b> Prose ( Modern Period Unit -II)<br/>الثقافة الهندية أحمد أمين 3)</p> <p><b>CC14:</b> Poetry ( Modern Period Unit -II)<br/>4) صلوات في هيكال الحب أبو القاسم الشابي</p> <p><b>Theory:</b><br/><b>DSE3:</b> Outline History of Modern Arab World &amp; Composition<br/>Group-A</p> <p>DSE-1B Outline History of Modern Arab World</p> |
| <p><b>June</b></p> <p>Theory:<br/>GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar &amp; Translation<br/>Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan</p>  | <p><b>SEC2:</b> Translation &amp; Interpretation (from English into Arabic &amp; vice versa from News papers) &amp; Communicative Skill:<br/><b>1)</b></p> <p><b>Theory:</b><br/>CC1D: Poetry : (Islamic, medieval, &amp; Modern Period)<br/>1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم<br/>5) الحماسة العباس بن مرداس السلمي<br/><b>SEC2:</b> Grammar ,translation &amp; latter writing<br/>Unit-a)</p>  | <p>DSE-1B Outline History of Modern Arab World</p>   |

Wasim Raja

Signature of the Teacher

Head of the Department,  
Department of Arabic,  
Suri Vidyasagar College





**Teaching Plan of Dr. Tanmoy Mandal for B.Sc. Plant Protection (General Course)  
(2020-21) (July 2020 – June 2021)**

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V (G)  | No. of Lecture |
|-------|---|----------------|---|----------------|--|----------------|
| Jul   | CC-1A Pests and Vectors<br>Theory: Pest-Comprehensive definition.<br>Categories of pests:<br><br>Practical: Mounting, preserving and labeling of Insect Pests and Vectors.                | 3              | CC-1C Bionomics, Plant disease and their management<br>Theory: Bionomics and Management of major insect pests of Rice & Sugarcane.              | 5              | DSE-1A Integrated Pest Management<br>Theory: Definition and genesis of Integrated Pests Managements<br><br>Practical: Study of sign and symptoms caused by pest.   | 4              |
|       |   | 2              | Stored grain Pests<br><br>Practical: Preparation of desired strength of Pesticides  | 4<br><br>2     |  | 2              |
|       |   |                | SEC-1 Green Pesticides<br>Theory: Definition of green pesticides  | 2              |  |                |
| Aug   | CC-1A Pests and Vectors<br>Theory: Pathogenic, Competitive, Regular, Sporadic with examples and their corresponding vector.<br><br>Practical: Identification of Insect Pest and diseases. | 2              | CC-1C Bionomics, Plant disease and their management<br>Theory: Bionomics and Management of major insect pests of Mustard, Potato & Cauliflower. | 5              | DSE-1A Integrated Pest Management<br>Theory: Tools and strategies of IPM- Cultural Control, Physical Control, Mechanical Control, Biological control, Chemical control etc.<br><br>Practical: Field survey and collection of pest and disease. | 10             |
|       |   | 2              | Common bird pest<br><br>Practical: Plant protection equipments; handling of rotary duster, Knapsack sprayer and seed dresser                    | 2<br><br>2     |  | 2              |
|       |   |                | SEC-1 Green Pesticides<br>Theory: Botanical pesticides, Advantage of using botanical insecticides   | 4              |  |                |
| Sept  | CC-1A Pests and Vectors<br>Theory:  | 8              | CC-1C Bionomics, Plant disease and their management   | 10             | DSE-1A Integrated Pest Management<br>Theory: Integrated Pests  | 6              |

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|     |   |        |   |                  |  |        |
|-----|---|--------|---|------------------|--|--------|
|     | <p>Characteristics of following pests. Protozoan, Nematodes, Mites, Insects, Molluscs, Birds, Rodents</p> <p>Practical: Permanent slide preparation.</p>                            | 2      | <p>Theory: Bionomics and Management of major insect pests of Brinjal, Jute, Gram, Mango, Tea</p> <p>Practical: Collection of insect pests, common weeds, their identification, preservation</p> <p>SEC-1 Green Pesticides<br/>Theory: preparation of pesticides from neem</p>   | 2<br>4           | <p>managements of Rice, &amp; Wheat crops.</p> <p>Practical: Application of pesticides in crop field</p>   | 2      |
| Oct | <p>CC-1A Pests and Vectors<br/>Theory: Locust Migration of Locust, Phase Theory.</p> <p>Practical: Collection of insects and other pests.</p>                                       | 2<br>2 | <p>CC-1C Bionomics, Plant disease and their management<br/>Theory: Termites- Examples, Biology and management</p> <p>Practical: Study of symptoms of attack by insect pests</p> <p>SEC-1 Green Pesticides<br/>Theory: preparation of pesticides from tobacco</p> <p>Green pesticides, Method of utilization, mode of action</p> | 2<br>2<br>4<br>4 | <p>DSE-1A Integrated Pest Management<br/>Theory: Integrated Pests managements of Potato &amp; Mustard Field.</p> <p>Practical: Application of pesticides in crop field.</p>                  | 4<br>2 |
| Nov | <p>CC-1A Pests and Vectors<br/>Theory: Origin of New Locust Cycle, nature of damage and management.</p> <p>Practical: Field trips for collection of specimens and surveillance.</p> | 3<br>2 | <p>CC-1C Bionomics, Plant disease and their management<br/>Theory: Rodents (<i>Bandicota bengalensis</i>, <i>Rattus rattus</i>) and their management</p> <p>Practical: Field trips for collection of specimens and surveillance</p> <p>SEC-1 Green Pesticides<br/>Theory:</p>   | 2<br>2<br>4      | <p>DSE-1A Integrated Pest Management<br/>Theory: Integrated Pests Managements of Sugarcane &amp; pulse crops.</p> <p>Practical: Field trips for collection of specimens and surveillance</p> | 6<br>2 |

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|     |  |                |   |                               |  |                |
|-----|--|----------------|---|-------------------------------|--|----------------|
|     |  |                | preparation of pesticides from Chrysanthemum  |                               |  |                |
|     |  |                | Green pesticides and chemical pesticides  | 8                             |  |                |
| Dec | CC-1A Pests and Vectors<br>Theory and Practical: Special classes + doubt clearing+ discussions   |                | CC-1C Bionomics, Plant disease and their management<br>Theory and Practical: Special classes + doubt clearing+ discussions  |                               | DSE-1A Integrated Pest Management<br>Theory and Practical: Special classes + doubt clearing+ discussions   |                |
|     |  |                |   |                               |  |                |
|     | Sem-II (G)   | No. of Lecture | Sem-IV (G)  | No. of Lecture                | Sem-VI (G)   | No. of Lecture |
| Jan | CC-1B Pest Management<br>Theory: Forecasting : Definition and need<br><br>Practical: Field trips for collection of specimens and surveillance. | 2<br><br>2     | CC-1D Plant Defence Mechanism<br>Theory: Resistance of Host Plant to insects.<br><br>Practical: Field trips for collection of specimens and surveillance.<br><br>SEC-2 Formulation and application of pesticides and their precautions<br>Theory: Formulation of pesticides<br><br>Sprayer and duster | 10<br><br>2<br><br>4<br><br>4 | DSE-1B Biotechnology in Plant Protection<br>Theory: Crop protection and food security, Applications of plant biotechnology in plant protection<br><br>Practical: Field trips for collection of specimens and surveillance. | 4<br><br>2     |
| Feb | CC-1B Pest Management<br>Theory: Forecasting and monitoring of some insects<br><br>Practical: Permanent slide preparation.                     | 5<br><br>2     | CC-1D Plant Defence Mechanism<br>Theory: Physiological inhibitors and feeding deterrents<br><br>Practical: Study of structural defences in plants- Trichome<br><br>SEC-2 Formulation and application of pesticides and their precautions<br>Theory: Solid   | 2<br><br>2<br><br>4           | Theory: Transgenic plants/ GM crops, Use of Beneficial Arthropods and Sterile Insect Release,<br><br>Practical: Study through Photograph   | 8<br><br>2     |

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|     |  |             |   |                              |  |            |
|-----|--|-------------|---|------------------------------|--|------------|
|     |  |             | formulation   |                              |  |            |
|     |  |             | Sprayer -cum-<br>duster, aerosol<br>generator   | 4                            |  |            |
| Mar | CC-1B Pest<br>Management<br>Theory: Major signs<br>and damage due to<br>animal pests<br><br>Practical: Study of<br>Symptoms of attack<br>by type pests                         | 3<br><br>2  | CC-1D Plant<br>Defence<br>Mechanism<br>Theory:<br>Ovipositional<br>stimulants and<br>deterrents, feeding<br>stimulants<br><br>Practical: Plant<br>protection<br>equipment; parts<br>and handling of<br>Rotary Duster.<br><br>SEC-2 Formulation<br>and application of<br>pesticides and their<br>precautions<br>Theory: Liquid<br>formulation<br><br>Soil injector, seed<br>dressing machine | 4<br><br>2<br><br>4<br><br>4 | DSE-1B Biotechnology<br>in Plant Protection<br>Theory: Insect<br>Pathogenic<br>Microorganisms,<br>Pheromones<br><br>Practical: Study through<br>Photograph   | 6<br><br>2 |
| Apr | CC-1B Pest<br>Management<br>Theory: Methods of<br>Managements<br><br>Practical:<br>Identification of<br>common Insects,<br>fungi other pests<br>and diseases of<br>major crops | 10<br><br>2 | CC-1D Plant<br>Defence<br>Mechanism<br>Theory: Host Plant<br>Nutrients and<br>Insects Resistance<br><br>Practical: Plant<br>protection<br>equipment; parts<br>and handling of<br>knapsack sprayer.<br><br>SEC-2 Formulation<br>and application of<br>pesticides and their<br>precautions<br>Theory: Gaseous<br>formulation  | 10<br><br>2<br><br>3         | DSE-1B Biotechnology<br>in Plant Protection<br>Theory: Role of<br>biotechnology in plant<br>resistance to insects.<br>successful examples of<br>resistant crop varieties in<br>India and world<br><br>Practical: Study through<br>Photograph | 6<br><br>2 |
| May | CC-1B Pest<br>Management<br>Theory: Integrated<br>Pest Management.<br><br>Practical:<br>Preservation,<br>Mounting and  | 10<br><br>2 | CC-1D Plant<br>Defence<br>Mechanism<br>Theory:<br>Allelochemicals<br>decreasing<br>nutrients<br>bioavailability,  | 4                            | DSE-1B Biotechnology<br>in Plant Protection<br>Theory: Genetic<br>engineering in<br><i>Baculoviruses</i> , <i>Bt</i> and<br>entomopathogenic fungi.<br>Transgenic plants for<br>pest resistance  | 4          |

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|      |   |  |   |                |  |   |
|------|---|--|---|----------------|--|---|
|      | labeling of specimens   |  | Plant breeding for insect resistance<br><br>Practical: Plant protection equipment; parts and handling of hand compression sprayer and seed dresser<br><br>SEC-2 Formulation and application of pesticides and their precautions<br>Theory: Precaution | 2<br><br><br>3 | Practical: Study through Photograph  | 2 |
| June | CC-1B Pest Management Theory and Practical: Special classes + doubt clearing+ discussions |  | CC-1D Plant Defence Mechanism Theory and Practical: Special classes + doubt clearing+ discussions   |                | DSE-1B Biotechnology in Plant Protection Theory and Practical: Special classes + doubt clearing+ discussions |   |

*Tanmay Mandal*

Department of Plant Protection  
Sri Vidyasagar College



**DEPARTMENT OF MATHEMATICS**

**TEACHING PLAN OF PROF. SHUBHENDU GHOSH**  
**Mathematics (Honours) (2020-21) (July 2020 – June 2021)**

| Month       | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)   | No. of Lecture |
|-------------|--|----------------|---|----------------|---|----------------|
| <b>Jul</b>  | CC01: Calculus<br>Unit-2:Reduction Formula   | 5+1            | CC06: Group Theory-1<br>Unit-1:Groups and its elementary property.  | 12+2           | DSE21: Probability and Statistics<br>Unit-1: Sample space, probability axioms, real random variables, cumulative distribution function, probability mass/density functions, mathematical expectation, moments   | 14+1           |
|             | CC02: Algebra<br>Unit 2: Equivalence Relation and Partition                              | 3+1            |   |                |   |                |
| <b>Aug</b>  | CC01: Calculus<br>Unit-2:Parametric Equation and Parametrization                         | 4+1            | CC06: Group Theory-1<br>Unit-2: Sub-groups and examples, Product of two sub-group   | 5+1            | DSE21: Probability and Statistics<br>Unit-1: Some discrete and continuous distributions<br><br>Unit-2: Joint distributions and its properties. marginal and conditional distributions, expectation of function of two random variables                | 3+1            |
|             | CC02: Algebra<br>Unit 2: Functions, Cardinality of a set                                 | 4+1            | Unit-3: Cyclic groups and properties, Permutations and Permutation groups   | 7+1            |   | 11+1           |
| <b>Sept</b> | CC01: Calculus<br>Unit-2:Arc length of curve   | 4+1            | CC06: Group Theory-1<br>Unit-3: Symmetric and Alternating groups, Cosets, Lagrange’s theorem and consequences including Fermat’s Little theorem | 12+2           | DSE21: Probability and Statistics<br>Unit-2: Bivariate normal distribution, correlation coefficient, joint moment generating function, linear regression for two variables<br><br>Unit-3: Chebyshev’s inequality, law of large numbers, Central Limit | 6+1            |
|             | CC02: Algebra<br>Unit 2: Well ordering property of positive integers, division algorithm | 4+1            |   |                |   | 8+1            |

|            |   |     |   |      |  |      |
|------------|---|-----|---|------|--|------|
|            |   |     |   |      | theorem  |      |
| <b>Oct</b> | CC01: Calculus<br>Unit-2: Area of surface of revolution   | 3+1 | CC06: Group Theory-1<br>Unit-4: External direct product of a finite number of groups, normal subgroups.   | 7+1  | DSE21: Probability and Statistics<br>Unit-3: Markov Chains, Chapman-Kolmogorov equations, classification of states | 7+1  |
|            | CC02: Algebra<br>Unit 2: Congruence relation  | 2   |   |      |  |      |
| <b>Nov</b> | CC01: Calculus<br>Unit-2: Techniques of sketching conics  | 3+1 | CC06: Group Theory-1<br>Unit-4: Factor groups, Cauchy's theorem for finite abelian groups   | 3+1  | DSE21: Probability and Statistics<br>Unit-4: Random Samples, Sampling Distributions, Estimation of parameters,     | 15+1 |
|            | CC02: Algebra<br>Unit 2: Principle of mathematical induction, Fundamental theorem of arithmetic | 3+1 | Unit-5: Group homomorphisms, properties of homomorphisms  | 10+1 |  |      |
| <b>Dec</b> | CC01: Calculus<br>Unit-2: Group discussions and evaluation                                      | 4   | CC06: Group Theory-1<br>Unit-5: Cayley's theorem, properties of isomorphisms, First, Second and Third isomorphism theorems.<br><br>Group discussions and evaluation | 7    | DSE21: Probability and Statistics<br>Unit-4: Testing of hypothesis.<br><br>Group discussions and evaluation        | 5+1  |
|            | CC02: Algebra<br>Unit 2: Group discussions and evaluation                                       | 4   |   | 5    |  | 5    |

| Month      | Sem-II(H)  | No. of Lecture | Sem-IV(H)   | No. of Lecture | Sem-VI (H)   | No. of Lecture |
|------------|--|----------------|---|----------------|--|----------------|
| <b>Jan</b> | CC03: Real Analysis<br>Unit-3: Introduction to Sequences, Infinite series, convergence and divergence of infinite series | 6+1            | CC10: Ring Theory and Linear Algebra I<br>Unit-1: Rings, properties of rings, Sub-rings, Integral domains | 10+2           | CC14: Ring Theory and Linear Algebra II<br>Unit-1: Polynomial rings over commutative rings, division algorithm and consequences, principal ideal domains, factorization of polynomials | 10+2           |
| <b>Feb</b> | CC03: Real Analysis<br>Unit-3: Cauchy Criterion, Tests for convergence:  | 8+1            | CC10: Ring Theory and Linear Algebra I<br>Unit-1: Fields, characteristic of a ring, Ideal, factor rings,  | 12+2           | CC14: Ring Theory and Linear Algebra II<br>Unit-1: Reducibility tests,   | 12+2           |

|             |   |     |  |            |  |              |
|-------------|---|-----|--|------------|--|--------------|
|             | Comparison test,<br>Ratio Test  |     | operations on ideals,<br>prime and maximal<br>ideals   |            | irreducibility tests,<br>Eisenstein<br>criterion, and<br>unique<br>factorization in $Z[x]$   |              |
| <b>Mar</b>  | CC03: Real<br>Analysis<br>Unit-3: Cauchy's<br>nth root test,<br>Integral test | 8+1 | CC10: Ring Theory and<br>Linear Algebra I<br>Unit-2: Ring<br>homomorphisms,<br>properties of ring<br>homomorphisms.<br>Isomorphism theorems I,<br>II and III, field of<br>quotients  | 12+2       | CC14: Ring<br>Theory and Linear<br>Algebra II<br>Unit-1: Divisibility<br>in integral<br>domains,<br>irreducible, primes,<br>unique<br>factorization<br>domains, Euclidean<br>domains   | 10+1         |
| <b>Apr</b>  | CC03: Real<br>Analysis<br>Unit-3:<br>Alternating series,<br>Leibniz test      | 8+1 | CC10: Ring Theory and<br>Linear Algebra I<br>Unit-4: Linear<br>transformations, null<br>space, range, rank and<br>nullity of a linear<br>transformation, matrix<br>representation<br>of a linear<br>transformation, algebra<br>of linear transformations | 12+2       | CC14: Ring<br>Theory and Linear<br>Algebra II<br>Unit-2: Dual<br>spaces, dual basis,<br>double dual,<br>transpose of a<br>linear<br>transformation and<br>its matrix in the<br>dual basis,<br>annihilators                               | 12+2         |
| <b>May</b>  | CC03: Real<br>Analysis<br>Unit-3: Absolute<br>and Conditional<br>convergence  | 8+1 | CC10: Ring Theory and<br>Linear Algebra I<br>Unit-4: Isomorphisms,<br>Isomorphism theorems,<br>invertibility<br>and isomorphisms   | 10+2       | CC14: Ring<br>Theory and Linear<br>Algebra II<br>Unit-2: Eigen<br>spaces of a linear<br>operator,<br>diagonalizability,<br>invariant subspaces<br>and Cayley-<br>Hamilton theorem,<br>the minimal<br>polynomial for a<br>linear operator | 12+2         |
| <b>June</b> | CC03: Real<br>Analysis<br>Unit-3: Group<br>discussions and<br>evaluation      | 4   | CC10: Ring Theory and<br>Linear Algebra I<br>Unit-4: Change of<br>coordinate matrix<br><br>Group discussions and<br>evaluation   | 4<br><br>4 | CC14: Ring<br>Theory and Linear<br>Algebra II<br>Unit-2: Canonical<br>forms<br><br>Group discussions   | 4+1<br><br>4 |



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|  |  |  |  |  | and evaluation |  |
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**TEACHING PLAN OF DR. RAMPROSAD SAHA**  
**Mathematics (Honours) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|---|----------------|---|----------------|--|----------------|
| Jul   | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3: Reflection properties of conics, translation and rotation of axes and second degree equations | 3+1            | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 4: Interpolation: Lagrange and Newton's methods, Error bounds, Finite difference operators. Gregory forward and backward difference interpolations.  | 5+1            | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications</b><br>Unit 3: The Cauchy problem of 2nd order partial differential equation, Cauchy-Kowalewskaya theorem, | 4+2            |
|       |   |                | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 1. Solution of transcendental and algebraic equations by<br>(a) Newton Raphson method.   | 3+1            | <b>CC12: Mechanics I</b><br>Unit 1: Co-planar forces. Astatic equilibrium. Friction.   | 6              |
|       |   |                | <b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1: Introduction, propositions, truth table, negation  | 3              |  |                |
| Aug   | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3: Classification of conics using the discriminant, : polar equations of conics                  | 3+2            | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 4: Numerical differentiation: Methods based on interpolations, methods based on finite differences.  | 4+1            | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications</b><br>Unit 3: Cauchy problem of an infinite string, Initial and Boundary Value Problems.                  | 3+2            |
|       |   |                | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 1. Solution of transcendental and algebraic equations by<br>(b) Regula Falsi method.   | 3+2            | <b>CC12: Mechanics I</b><br>Unit 1: Equilibrium of a particle on a rough curve. Virtual work, Forces in three dimensions.  | 7              |
|       |   |                | <b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1: Conjunction and disjunction. Implications, biconditional propositions  | 4              |  |                |
| Sept  | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3 Spheres, Cylindrical surfaces  | 3+1            | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 5: Numerical Integration: Newton Cotes formula, Trapezoidal rule, Simpson's 1/3rd rule, Simpsons 3/8 <sup>th</sup> rule, Weddle's rule, Boole's rule. Midpoint rule, Composite Trapezoidal rule, | 4+1            | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications</b><br>Unit 3: Semi-Infinite String with a fixed end, Semi-Infinite String with a Free end.                | 3+1            |
|       |   |                | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 2. Solution of system of linear equations  | 3+1            | <b>CC12: Mechanics I</b><br>Unit 1: General conditions of equilibrium, Centre of gravity for different   | 7+1            |

|     |   |   |  |     |   |     |
|-----|---|---|--|-----|---|-----|
|     |   |   | (a) Gaussian elimination method<br><br><b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1: Converse, contra positive and inverse propositions and precedence of logical operators                     | 3   | bodies. Stable and unstable equilibrium, Equilibrium of flexible string.  |     |
| Oct | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3: Central conicoids, paraboloids  | 3 | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 5: Composite Simpson's 1/3rd rule, Gauss quadrature formula.  | 3   | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications</b><br>Unit 3: Equations with non-homogeneous boundary conditions.  | 3   |
|     |   |   | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 2. Solution of system of linear equations<br>(b) Gauss-Seidel method  | 2+1 | <b>CC12: Mechanics I</b><br>Unit 3: Degrees of freedom, Moments and products of inertia, Momental Ellipsoid.  | 5   |
|     |   |   | <b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1 Propositional equivalence: Logical equivalences  | 2   |   |     |
| Nov | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3: Plane sections of conicoids, Generating lines, classification of quadrics | 5 | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 5: The algebraic eigenvalue problem: Power method.<br>Unit 6: Ordinary Differential Equations: The method of successive approximations    | 3+2 | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications</b><br>Unit 3: Non-Homogeneous Wave Equation, Method of separation of variables: Solving the Vibrating String Problem. Solving the Heat Conduction Problem.   | 4+2 |
|     |   |   | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 3. Interpolation : Lagrange Interpolation<br>4. Numerical Integration<br>(a) Trapezoidal Rule                                   | 5+2 | <b>CC12: Mechanics I</b><br>Unit 3: Principal axes, D'Alembert's Principle, Motion about a fixed axis, Compound pendulum.   | 6+1 |
|     |   |   | <b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1: Predicates and quantifiers: Introduction  | 4   |   |     |
| Dec | <b>Theory:</b><br><b>CC1: Geometry</b><br>Unit 3: Illustrations of graphing standard quadric surfaces like cone, ellipsoid  | 5 | <b>Theory</b><br><b>CC7: Numerical Methods</b><br>Unit 6: Euler's method, the modified Euler method, Runge-Kutta methods of orders two and four.   | 2+1 | <b>Theory</b><br><b>CC11: Partial Differential Equations and Applications: Graphical Demonstration :</b><br>4. Solution of wave equation<br>$\frac{\partial^2 u}{\partial t^2} - \frac{\partial^2 u}{\partial x^2} = 0$ for the following associated conditions:<br>(a) $u(x,0) = f(x)$ , $u_x(x,0) = y(x)$ , $x \in \mathbb{R}$ , $t > 0$ .<br>(b) $u(x,0) = f(x)$ , $u_x(x,0) = y(x)$ , $u(0,t) = 0$ , $x \in (0, \frac{\pi}{2})$ , $t > 0$ . | 5   |
|     |   |   | <b>Practical</b><br><b>CC7: Numerical Methods Lab</b><br>Unit 7: 4. Numerical Integration<br>(b) Simpson's one third rule<br>5. Solution of ordinary differential equations : Runge Kutta method | 4   | 5. Solution of wave equation<br>$\frac{\partial^2 u}{\partial t^2} - c^2 \frac{\partial^2 u}{\partial x^2} = 0$ for the following associated conditions:<br>(a) $u(x,0) = f(x)$ , $u(0,t) = a$ , $u(l,t) = b$ , $0 < x < l$ , $t > 0$ .<br>(b) $u(x,0) = f(x)$ , $u_x(0,t) < 0$ , $0 < t < T$ .   | 4   |
|     |   |   | <b>Theory</b><br><b>SEC1: Logic</b><br>Unit 1: Quantifiers, Binding variables and Negations  | 2   | <b>CC12: Mechanics I</b><br>Unit 3: Motion of a system of particles, Motion of a rigid body in two dimensions under finite and impulsive forces, Conservation of momentum and energy.   | 4+1 |
| Jan | Sem-II (H)  |   | Sem-IV (H)   |     | Sem-VI (H)  |     |

|             |   |     |   |              |   |              |
|-------------|---|-----|---|--------------|---|--------------|
|             | <b>Theory<br/>CC4: Differential<br/>Equation</b><br>Unit 1: Lipschitz condition and Picard's Theorem (Statement only). General solution of homogeneous equation of second order.        | 6   | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 3: Vector operators, Gradient of a scalar function, directional derivatives.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 1: Definition, examples and basic properties of graphs.   | 4<br><br>4   | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 1: Interpretation of Newton's laws of motion, Galilean transformation, Concept of absolute length and time.<br><br><b>Project Work<br/>PW01:</b> | 8<br><br>6+2 |
| <b>Feb</b>  | <b>Theory<br/>CC4: Differential<br/>Equation</b><br>Unit 1: .Principle of super position for homogeneous equation, Wronskian: its properties and applications.                          | 4   | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 3: Definition of vector field, divergence and curl, Line integrals.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 1: Pseudo graphs. complete graphs, Bi-partite graphs isomorphism of graphs.  | 4<br><br>6   | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 1: Limitations of Newton's laws in solving problems.<br><br><b>Project Work<br/>PW01:</b>  | 7<br><br>8+2 |
| <b>Mar</b>  | <b>Theory<br/>CC4: Differential<br/>Equation</b><br>Unit 1: Linear homogeneous and non-homogeneous equations of higher order with constant coefficients, Euler's equation.              | 6   | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 3: Fundamental theorem for line integrals, conservative vector fields, Application of line integral to Workdone.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 2: Eulerian circuits, Eulerian graph, semi-Eulerian graph and theorems. | 2+1<br><br>7 | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 3: Constraints and their classifications, Lagrange's equation of motion for holonomic system.<br><br><b>Project Work<br/>PW01:</b>               | 10<br><br>8  |
| <b>Apr</b>  | <b>Theory<br/>CC4: Differential<br/>Equation</b><br>Unit 1: Method of undetermined coefficients, method of variation of parameters.   | 4   | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 4: Green's theorem, surface integrals.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 2: Hamiltonian cycles and theorems, Representation of a graph by a matrix, the adjacency matrix, incidence matrix, weighted graph.                | 4+1<br><br>8 | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 3: Gibbs-Appell's principle of least constraint.<br><br><b>Project Work<br/>PW01:</b>  | 8<br><br>12  |
| <b>May</b>  | <b>Theory<br/>CC4: Vector Calculus</b><br>Unit 3: Triple product, introduction to vector functions. Operations with vector-valued functions, Limits and continuity of vector functions. | 6   | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 4: Integrals over parametrically defined surfaces. Stoke's theorem.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 3: Travelling salesman's problem, shortest path, Tree and their properties, spanning tree.                           | 4<br><br>8   | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 3: Work energy relation for constraint forces of shielding friction<br><br><b>Project Work<br/>PW01:</b>   | 7<br><br>10  |
| <b>June</b> | <b>Theory<br/>CC4: Vector Calculus</b><br>Unit 3: Differentiation and integration of vector functions.  | 4+1 | <b>Theory<br/>CC9: Multivariate Calculus</b><br>Unit 4: The Divergence theorem.<br><br><b>Theory<br/>SEC2: Graph Theory</b><br>Unit 3: Dijkstra's algorithm, Warshall algorithm.  | 2+1<br><br>7 | <b>Theory<br/>DSE4: Mechanics-II</b><br>Unit 1 & 3: Revision of Mechanics – II.<br><br><b>Project Work<br/>PW01:</b>  | 4<br><br>6   |



**TEACHING PLAN OF DR. PRASENJIT SAHA**  
**Mathematics (Honours) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (H)  | No. of Lecture     | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture      |
|-------|--|--------------------|--|----------------|---|---------------------|
| Jul   | <b>CC01: Differential Equations</b><br><b>Unit 4:</b> Differential equations and mathematical models. General, particular solution<br><br><b>CC02: Algebra</b><br><b>Unit 3:</b> Systems of linear equations | 3+1<br><br><br>3+1 | <b>CC07: Numerical Methods</b><br><b>Unit 1:</b> Algorithms, Convergence, Errors: Relative, Absolute. Round off, Truncation<br><br><b>CC07: Numerical Methods Lab (Practical)</b>                | 2+1<br><br>4   | <b>CC11: Partial Differential Equations and Applications</b><br><b>Unit 1:</b> Basic concepts and Definitions. Mathematical Problems. First-Order Equations: Classification, Construction and Geometrical Interpretation. Method of Characteristics for obtaining General Solution of Quasi Linear Equations.   | 18+2                |
| Aug   | <b>CC01: Differential Equations</b><br><b>Unit 4:</b> Explicit, implicit and singular solutions of a differential equation.<br><br><b>CC02: Algebra</b><br><b>Unit 3:</b> Row reduction and echelon forms    | 3+1<br><br><br>2+1 | <b>CC07: Numerical Methods</b><br><b>Unit 2:</b> Transcendental and Polynomial equations: Bisection method, Newton's method, Secant method<br><br><b>CC07: Numerical Methods Lab (Practical)</b> | 3+2<br><br>4   | <b>CC11: Partial Differential Equations and Applications</b><br><b>Unit 1:</b> Canonical Forms of First-order Linear Equations. Method of Separation of Variables for solving first order partial differential equations.<br><br><b>Unit 2:</b> Derivation of Heat equation, Wave equation and Laplace equation | 12+2<br><br><br>6+2 |
| Sept  | <b>CC01: Differential Equations</b><br><b>Unit 4:</b> Exact differential equations and integrating factors   | 4+1                | <b>CC07: Numerical Methods</b><br><b>Unit 2:</b> Regula falsi method, fixed point iteration, Newton-Raphson method. Rate of convergence of these methods   | 3+2<br><br>4   | <b>CC11: Partial Differential Equations and Applications</b><br><b>Unit 2:</b> Classification of second order linear equations as hyperbolic,   | 14+2                |

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|-----|--|-----|--|-----|---|------|
|     | <b>CC02: Algebra Unit 3:</b> Vector equations  | 3   | <b>CC07: Numerical Methods Lab (Practical)</b>   |     | parabolic, elliptic. Reduction of second order Linear Equations to canonical forms  |      |
| Oct | <b>CC01: Differential Equations Unit 4:</b> Separable equations and equations reducible to this form | 3   | <b>CC07: Numerical Methods Unit 3:</b> System of linear algebraic equations: Gaussian Elimination and Gauss Jordan methods. Gauss Jacobi method  | 4+2 | <b>CC11: Partial Differential Equations and Applications Unit 3:</b> The Cauchy problem of 2nd order partial differential equation, Cauchy-Kowalewskaya theorem, Cauchy problem of an infinite string, Initial and Boundary Value Problems. | 12+2 |
|     | <b>CC02: Algebra Unit 3:</b> The matrix equation $Ax=b$ , solution sets of linear systems            | 2+1 | <b>CC07: Numerical Methods Lab (Practical)</b>   | 4   |   |      |
| Nov | <b>CC01: Differential Equations Unit 4:</b> Linear equation and Bernoulli equations                  | 4+1 | <b>CC07: Numerical Methods Unit 3:</b> Gauss Seidel method and their convergence analysis, LU Decomposition  | 4+2 | <b>CC11: Partial Differential Equations and Applications Unit 3:</b> Semi-Infinite String with a fixed end, Semi-Infinite String with a Free end. Equations with non-homogeneous boundary conditions. Non-Homogeneous Wave Equation         | 14+2 |
|     | <b>CC02: Algebra Unit 3:</b> Applications of linear systems  | 2+1 | <b>CC07: Numerical Methods Lab (Practical)</b>   | 4   |   |      |
| Dec | <b>CC01: Differential Equations Unit 4:</b> Special integrating factors                              | 3   | <b>CC07: Numerical Methods Unit 4:</b> Ordinary Differential Equations: The method of successive approximations, Euler's method, the modified Euler method, Runge-Kutta methods of orders two and four | 5+2 | <b>CC11: Partial Differential Equations and Applications Unit 3:</b> Method of separation of variables: Solving the Vibrating String Problem. Solving the Heat Conduction   | 10+2 |
|     | <b>CC02: Algebra Unit 3:</b> linear independence   | 3   |  |     |   |      |
|     | Group discussions and evaluation   | 2   | <b>CC07: Numerical</b>   | 4   |   |      |

|            |  |     |   |      |   |              |
|------------|--|-----|---|------|---|--------------|
|            |  |     | <b>Methods Lab (Practical)</b><br><br>Group discussions and evaluation  | 2    | Problem<br><br><b>Graphical Demonstration</b><br><br>Group discussions and evaluation   | 4<br><br>2   |
|            | <b>Sem-II (H)</b>  |     | <b>Sem-IV (H)</b>   |      | <b>Sem-VI (H)</b>   |              |
| <b>Jan</b> | <b>CC04: Differential Equation</b><br><b>Unit 2:</b> Systems of linear differential equations, types of linear systems                             | 7+1 | <b>CC09: Multivariate Calculus</b><br><b>Unit 1:</b> Functions of several variables, limit and continuity, Partial differentiation, total differentiability and differentiability, sufficient condition for differentiability | 12+2 | <b>DSE43: Mechanics-II</b><br><b>Unit 2:</b> Equilibrium of fluid in a given field of force<br><br><b>PW01: Project Work</b>                            | 6+2<br><br>8 |
| <b>Feb</b> | <b>CC04: Differential Equation</b><br><b>Unit 2:</b> Differential operators, an operator method for linear systems with constant coefficients,     | 6+2 | <b>CC09 Multivariate Calculus</b><br><b>Unit 1:</b> Chain rule for one and two independent parameters, directional derivatives  | 14+2 | <b>DSE43: Mechanics-II</b><br><b>Unit 2:</b> Pressure in a heavy homogeneous liquid<br><br><b>PW01: Project Work</b>                                    | 6+2<br><br>8 |
| <b>Mar</b> | <b>CC04: Differential Equation</b><br><b>Unit 2:</b> Basic Theory of linear systems in normal form   | 6+2 | <b>CC09 Multivariate Calculus</b><br><b>Unit 1:</b> The gradient, Jacobian, maximal and normal property of gradient, tangent planes   | 14+2 | <b>DSE43: Mechanics-II</b><br><b>Unit 2:</b> Equilibrium of floating bodies, Isothermal and adiabatic changes in Gases<br><br><b>PW01: Project Work</b> | 6+2<br><br>8 |
| <b>Apr</b> | <b>CC04: Differential Equation</b><br><b>Unit 2:</b> Homogeneous linear systems with constant coefficients: Two Equations in two unknown functions | 6+2 | <b>CC09 Multivariate Calculus</b><br><b>Unit 1:</b> Extrema of functions of n variables with necessary and sufficient conditions, method of Lagrange multipliers  | 14+2 | <b>DSE43: Mechanics-II</b><br><b>Unit 2:</b> Convective equilibrium<br><br><b>PW01: Project Work</b>  | 6+2<br><br>8 |

|      |   |     |  |      |  |              |
|------|---|-----|--|------|--|--------------|
| May  | <b>CC04: Differential Equation Unit 3:</b> Equilibrium points, Interpretation of the phase plane, Power series solution of a differential equation about an ordinary point, | 6+2 | <b>CC09 Multivariate Calculus Unit 2:</b> Double integration over rectangular region, double integration over non-rectangular region, Double integrals in polar co-ordinates   | 12+2 | <b>DSE43: Mechanics-II Unit 2:</b> Stress in continuum body<br><br><b>PW01: Project Work</b> | 6+2<br><br>8 |
| June | <b>CC04: Differential Equation Unit 3:</b> Solution about a regular singular point  | 4   | <b>CC09 Multivariate Calculus Unit 2:</b> Triple integrals, Triple integral over a parallelepiped and solid regions. Volume by triple integrals, cylindrical and spherical coordinates. Change of variables in double integrals and triple integrals | 10+2 | <b>DSE43: Mechanics-II Unit 2:</b> Stress quadric<br><br><b>PW01: Project Work</b>           | 6+2<br><br>8 |
|      | Group discussions and evaluation  | 4   | Group discussions and evaluation   | 2    | Group discussions and evaluation   | 2            |



**TEACHING PLAN OF SUJOY DAS**  
**Mathematics (HONOURS) (2020-21) (1<sup>st</sup> July 2020 – 30<sup>th</sup> June 2021)**

| Month  | SEM-I (H)  | No. of Lectures | SEM-III (H)   | No. of Lectures | SEM-V(H)  | No. of Lectures |
|--------|--|-----------------|---|-----------------|---|-----------------|
| July   | <b>Paper-CC-01, Unit -1:</b> Hyperbolic functions, higher order derivatives, Leibnitz rule and its applications to problems of type $e^{ax+b} \sin x, e^{ax+b} \cos x, (ax+b)^n \sin x, (ax+b)^n \cos x$ | 5+6             | <b>Paper-CC-05, Unit -1:</b> Limits of functions ( $\epsilon - \delta$ approach), sequential criterion for limits, divergence criteria. Limit theorems, one sided limits. | 6+6             | <b>Paper-DSE-11, Unit -1:</b> Introduction to linear programming problem. Theory of simplex method, | 5+6             |
| August | <b>Paper-CC-01, Unit -1:</b> Concavity and inflection points envelopes, asymptotes, curve tracing in Cartesian coordinates, tracing in polar coordinates of standard curves,                             | 4+4             | <b>Paper-CC-05, Unit -1:</b> Infinite limits and limits at infinity. Continuous functions, sequential criterion for continuity and discontinuity.                         | 7+6             | <b>Paper-DSE-11, Unit -1:</b> graphical solution, convex sets, optimality and unboundedness         | 6+4             |
| Sept   | <b>Paper-CC-01, Unit -1:</b> L'Hospital's rule, applications in business, economics and life sciences.   | 3+6             | <b>Paper-CC-05, Unit -1:</b> Algebra of continuous functions. Continuous functions on an interval,  | 6+4             | <b>Paper-DSE-11, Unit -1:</b> The simplex algorithm   | 6+4             |

|     |  |     |   |     |  |      |
|-----|--|-----|---|-----|--|------|
|     |  |     | intermediate value theorem,   |     |  |      |
| Oct | <b>Paper-CC-02, Unit -4:</b> Introduction to linear transformations, matrix of a linear transformation, inverse of a matrix, characterizations of invertible matrices.   | 6+6 | <b>Paper-CC-05, Unit -1:</b> Location of roots theorem, preservation of intervals theorem. Uniform continuity, non-uniform continuity criteria, theorems on uniform continuity.   | 6+4 | <b>Paper-DSE-11, Unit -1:</b> Simplex method in tableau format   | 5+4  |
| Nov | <b>Paper-CC-02, Unit -4:</b> Vector Spaces of $\mathbb{R}^n$ , Subspaces of $\mathbb{R}^n$ , dimension of subspaces of $\mathbb{R}^n$ , rank of a matrix, Eigen values, Eigen Vectors and Characteristic Equation of a matrix. | 8+6 | <b>Paper-CC-05, Unit -4:</b> Metric spaces: Definition and examples. Open and closed balls, neighbourhood, Open set, interior of a set. Limit point of a set, closed set, diameter of a set, subspaces,   | 6+8 | <b>Paper-DSE-11, Unit -4:</b> Games with mixed strategies, graphical solution procedure,.  | 10+6 |
| Dec | <b>Paper-CC-02, Unit -4:</b> Cayley-Hamilton theorem and its use in finding the inverse of a matrix.   | 4+2 | <b>Paper-CC-05, Unit -4:</b> Dense sets, separable spaces.  | 4+2 | <b>Paper-DSE-11, Unit -4:</b> near programming solution of games.  | 5+2  |
|     | <b>SEM-II (H)</b>  |     | <b>SEM-IV(H)</b>  |     | <b>SEM-VI(H)</b>   |      |
| Jan | <b>Paper-CC-03, Unit -1:</b> Review of Algebraic and Order Properties of $\mathbb{R}$ , $\epsilon$ -neighbourhood of a point in $\mathbb{R}$ . Idea of countable sets, uncountable sets and uncountability of $\mathbb{R}$ .   | 4+4 | <b>Paper-CC-08, Unit -3:</b> Pointwise and uniform convergence of sequence of functions. Theorems on Continuity, derivability and integrability of the limit function of a sequence of functions.   | 8+4 | <b>Paper-CC-13, Unit -1:</b> Metric spaces: Sequences in Metric Spaces, Cauchy sequences. Complete Metric Spaces, Cantor's theorem.  | 5+5  |
| Feb | <b>Paper-CC-03, Unit -1:</b> Bounded above sets, Bounded below sets, Bounded Sets, Unbounded sets. Suprema and Infima. Completeness Property of $\mathbb{R}$ and its equivalent properties.                                    | 4+4 | <b>Paper-CC-08, Unit -3:</b> Series of functions, Theorems on the continuity and derivability of the sum function of a series of functions; Cauchy criterion for uniform convergence and Weierstrass M-Test.  | 8+4 | <b>Paper-CC-13, Unit -2:</b> Continuous mappings, sequential criterion and other characterizations of continuity, Uniform continuity, Connectedness, connected subsets of $\mathbb{R}$ . | 6+4  |
| Mar | <b>Paper-CC-03, Unit -1:</b> The Archimedean Property, Density of Rational (and Irrational) numbers in $\mathbb{R}$ , Intervals.   | 4+4 | <b>Paper-CC-08, Unit -3:</b> Fourier series: Definition of Fourier coefficients and series, Riemann-Lebesgue lemma, Bessel's inequality, Parseval's identity, Dirichlet's condition. Examples of Fourier expansions and summation results for series. | 9+4 | <b>Paper-CC-13, Unit -2:</b> Compactness: Sequential compactness, Heine-Borel property, Totally bounded spaces,  | 6+4  |
| Apr | <b>Paper-CC-03, Unit -1:</b> Limit points of a set, Isolated points,   | 3+6 | <b>Paper-CC-08, Unit -3:</b> Power series, radius of convergence, Cauchy Hadamard Theorem. Differentiation and integration of power series; Abel's Theorem; Weierstrass Approximation Theorem.  | 8+4 | <b>Paper-CC-13, Unit -2:</b> finite intersection property, and continuous functions on compact sets.   | 6+4  |
| May | <b>Paper-CC-03, Unit -1:</b> Open set, closed set, derived set, Illustrations of Bolzano-Weierstrass theorem for sets,   | 3+6 | <b>Paper-CC-10, Unit -3:</b> Vector spaces, subspaces, algebra of subspaces, quotient spaces, linear combination of vectors, linear span, linear independence, Basis and dimension, dimension of subspaces, extension,                                | 9+6 | <b>Paper-CC-13, Unit -2:</b> Homeomorphism, Contraction mappings, Banach Fixed point Theorem   | 5+6  |
| Jun | <b>Paper-CC-03, Unit -1:</b> compact sets in $\mathbb{R}$ , Heine-Borel Theorem  | 2+2 | <b>Paper-CC-08, Unit -3:</b> Deletion and replacement theorems.   | 3+2 | <b>Paper-CC-13, Unit -2:</b> Application of Banach Fixed point Theorem to ordinary differential equation<br>Project Work   | 2+8  |



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**TEACHING PLAN OF SOUMI DAS**  
**Mathematics (Honours) (2020-21) (July 2020 – June 2021)**

| Month       | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture   | Sem-V (H)   | No. of Lecture |
|-------------|---|----------------|--|--|---|----------------|
| <b>Jul</b>  | <b>Theory:</b><br><b>CC02:Algebra</b><br>Unit 1:Polar representation of complex numbers,nth roots of unity ,De Moivre's theorem for rational indices and its applications | <b>6+1</b>     | <b>Theory</b><br><b>CC05:Theory of Real Functions</b><br>Unit 2: Differentiability of a function at a point and in an interval,Caratheodorystheorem,algebra of differentiable functions<br><br><b>Theory</b><br><b>SEC1: Set</b><br>Unit2:Sets,Subsets,set operations and the laws of set theory and Venn diagrams                                       | <b>8+2</b><br><br><br><br><br><br><br><br><br><br><b>3</b> | <b>Theory:DSE11:Linear Programming</b><br>Unit 2:Duality,Formulation of dual problem  | <b>8+4</b>     |
| <b>Aug</b>  | <b>Theory:</b><br><b>CC02</b><br>Unit 1:Theory of equations,Relation between roots and coefficients   | <b>3+2</b>     | <b>Theory</b><br><b>CC05:Theory of real function</b><br>Unit02:Relative extrema,interiorextremum,Rollestheorem,Mean value theorem<br><br><b>Theory</b><br><b>SEC1: Set</b><br>Unit 2:Examples of finite and infinite sets,Finite sets and counting principle   | <b>7+1</b><br><br><br><br><br><br><br><br><br><br><b>3</b> | <b>Theory</b><br><b>DSE11:Linear Programming</b><br>Unit 2:Primal dual relationships,economic interpretation of the dual,Dual simplex method                  | <b>9+2</b>     |
| <b>Sept</b> | <b>Theory:</b><br><b>CC2:Algebra</b><br>Transformation of equation,Descartes rule of signs,Cubic equations  | <b>5+2</b>     | <b>Theory</b><br><b>CC05:Theory of real function</b><br>Unit2:Intermediate value property of derivatives,Darbouxtheorem,Applications of mean value theorem to inequalities and approximation of polynomials<br><br><b>Theory</b><br><b>SEC1:Set</b><br>Unit 2:Empty set and property of empty set,Standard set operations,Classes of sets,power of a set | <b>8+3</b><br><br><br><br><br><br><br><br><br><br><b>3</b> | <b>Theory</b><br><b>DSE11:Linear Programming</b><br>Unit 2:Transportation problem and its mathematical formulation,north west corner method,least cost method | <b>8+2</b>     |
| <b>Oct</b>  | <b>Theory:</b><br><b>CC02:Algebra</b><br><b>Biquadratic equation,Reciprocal equation</b>  | <b>3</b>       | <b>Theory</b><br><b>CC05:Theory of real functions</b><br>Unit2:Application of differential calculus,Curvature<br><br><b>Theory</b><br><b>SEC 1:Set</b><br>Unit 3:Difference and symmetric difference of two sets,Set identities  | <b>3</b><br><br><br><br><br><br><br><br><br><br><b>2</b>   | <b>Theory</b><br><b>DSE11:Linear Programming</b><br>Unit 3:Vogel approximation method for determination of starting basic solution                            | <b>3</b>       |

|            |   |            |   |   |  |             |
|------------|---|------------|---|---|--|-------------|
| <b>Nov</b> | <b>Theory:</b><br><b>CC02:Algebra</b><br>Unit 1:Separation of the roots of the equations,Strums theorem | <b>4+2</b> | <b>Theory</b><br><b>CC05:Theory of Real functions</b><br>Unit 3:Cauchy's mean value theorem,Taylor's theorem with Lagrange's form of remainder,Taylor's theorem with Cauchy's form of remainder,Application of Taylor's theorem to convex functions,relativeextrema<br><br><b>Theory</b><br><b>SEC1: Set</b><br>Unit 3:Generalized union and intersections,Relation,Productset, Compositionof relations,Type of relations | <b>10+2</b><br><br><br><br><br><br><br><br><br><br><b>2+1</b> | <b>Theory</b><br><b>DSE11:Linear Programming</b><br>Unit 3:Algorithm for solving transportation problem,assignmentproblem,and its mathematical formulation         | <b>10+2</b> |
| <b>Dec</b> | <b>Theory CC02:</b><br>Unit 1:The inequality involving $AM>GM>HM$<br>Cauchy-Schwartz inequality         | <b>4</b>   | <b>Theory</b><br><b>CC05:Theory of real functions</b><br>Unit 3:Taylor's series and Maclaurin's series expansions of exponential and trigonometric functions,Application of Taylor's theorem to inequalities<br><br><b>Theory</b><br><b>SEC1:Set</b><br>Unit 3:Partitions,Equivalence Relatipns with examples of congruence modulo relation,Partial ordering relations,n -ary relation                                    | <b>8+1</b><br><br><br><br><br><br><br><br><br><br><b>3</b>    | <b>Theory</b><br><b>DSE11:Linear Programming</b><br>Unit3:Hungarian method for solving assignment problem,Travelling salesman proble                               | <b>8</b>    |
|            | <b>Sem-II (H)</b>   |            | <b>Sem-IV (H)</b>   |   | <b>Sem-VI (H)</b>  |             |
| <b>Jan</b> | <b>Theory</b><br><b>CC3Real Analysis</b><br>Unit 2:Sequences,Bounded sequence,convergent sequence       | <b>3+1</b> | <b>Theory</b><br><b>CC08:Riemann Integration and series of functions</b><br>Unit1:Riemann integration,inequalities of upper and lower sumsDarbouxintegration,Darboux theorem  | <b>8</b>  | <b>Theory:CC13:Complex Analysis</b><br>Unit 3:Limits,Limits involving the point at infinity,continuity,properties of complex numbers                               | <b>8+4</b>  |
| <b>Feb</b> | <b>Theory</b><br><b>CC3:Real Analysis</b><br>Unit 2: .Limit of a sequence,liminf,limsup,Limit theorems  | <b>4</b>   | <b>Theory</b><br><b>CC08:Riemann integration and series of functions</b><br>Unit1:Riemann conditions of integrability,Riemann sum and definition of Riemann integral through Riemann sums,equivalence of two definitions  | <b>8+3</b>  | <b>Theory</b><br><b>CC13:Complex Analysis</b><br>Unit3:,regions in the complex plane,functions of complex variable ,mappings,derivatives,differentiat ion formulas | <b>7+4</b>  |
| <b>Mar</b> | <b>Theory</b><br><b>CC3:Real Analysis</b><br>Unit 2:Monotone sequences,Monotone                         | <b>4+2</b> | <b>Theory</b><br><b>CC08:Riemann integration and series of functions</b><br>Unit 1:Riemann integrability of   | <b>6+4</b>  | <b>Theory:CC13:Coplex Analysis</b><br>Unit 3: Cauchy -Riemann equations,sufficient conditions for differentiability,analyticfunctions,                             | <b>10+2</b> |

|             |  |     |  |     |   |      |
|-------------|--|-----|--|-----|---|------|
|             | convergence theorem  |     | monotone and continuous functions, Properties of Riemann integral, definition and integrability of piecewise continuous and monotone functions               |     | example of analytic functions, exponential functions  |      |
| <b>Apr</b>  | <b>Theory CC3:Real Analysis</b><br>Unit 2: Subsequences, Divergence criteria, Monotone Subsequence theorem | 4+2 | <b>Theory CC08:Riemann integration and series of functions</b><br>Unit 1: Intermediate Value theorem for integrals, Fundamental theorem of integral calculus | 8+4 | <b>Theory:CC13:Complex Analysis:</b><br>Logarithmic function, trigonometric function, Derivatives of functions, definite integrals of functions, contours | 10+1 |
| <b>May</b>  | <b>Theory CC3:Real Analysis</b><br>Unit 2: Bolzano Weierstrass theorem for sequences, Cauchy sequence      | 4   | <b>Theory CC908:Riemann integration and series of functions</b><br>Unit 2: Improper integrals  | 6+3 | <b>Theory:CC13:Complex Analysis:Unit 4:</b> contour integrals and its examples, upper bounds for moduli of contour integrals, Cauchy-Goursat theorem      | 8+2  |
| <b>June</b> | <b>Theory CC3:Real Analysis</b><br>Unit 2: Cauchy's Convergence Criterion                                  | 4+1 | <b>Theory CC08:Riemann integration and series of functions</b><br>Unit 2: Beta and Gamma function.   | 4+3 | <b>Theory:CC13:Complex Analysis:Unit 4:</b><br>Unit 4: Cauchy integral formula and Revision of complex analysis   | 4    |



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**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF NARANIYA BOY  
ENGLISH (Honours) (2020-21) (July 2020 - June 2021)**

| Month | Unit (I)  | No. of Lectures | Unit (II)   | No. of Lectures | Unit (III)   | No. of Lectures |
|-------|---|-----------------|---|-----------------|--|-----------------|
| Jul   | CCU Indian Classical Literature<br>Unit - 6. <i>Uttara</i><br><i>Shakuntala</i> | 6               | CCU American Literature<br>Unit 4. <i>The Glass Menagerie</i><br>CCU British Poetry and Drama<br>Unit 3. <i>The Rape of the Lock</i>              | 6               | CCU Women's Writing<br>Unit 4 (ii) <i>The Yellow Wallpaper</i><br>BCE1. <i>Madness, Indian Writing</i><br>Unit 1 (ii) <i>'Moksh'</i> | 6               |
| Aug   | CCU Indian Classical Literature<br>Unit - 6. <i>Uttara</i><br><i>Shakuntala</i> | 6               | CCU American Literature<br>Unit 4. <i>The Glass Menagerie</i><br>CCU British Poetry and Drama<br>Unit 3. <i>The Rape of the Lock</i>              | 6               | CCU Women's Writing<br>Unit 4 (ii) <i>'A Blue'</i><br>BCE1. <i>Madness, Indian Writing</i><br>Unit 1 (ii) <i>'Sama Pata'</i>         | 6               |
| Sept  | CCU Indian Classical Literature<br>Unit - 6. <i>Uttara</i><br><i>Shakuntala</i> | 6               | CCU American Literature<br>Unit 4. <i>The Glass Menagerie</i><br>CCU British Poetry and Drama<br>Unit 3. <i>The Rape of the Lock</i>              | 6               | CCU Women's Writing<br>Unit 4 (ii) <i>'Draped'</i>   | 6               |
| Oct   | CCU European Classical Literature<br>Unit 3. <i>Macbeth</i>                     | 6               | CCU Popular Literature<br>Unit 1. <i>The Wonderful Wizard of Oz</i>   | 6               | CCU Women's Writing<br>Unit 1 (ii) <i>'Aunt Hester'</i><br>BCE1. <i>Parables Literature</i><br>Unit 2. <i>Trains in Pakistan</i>     | 6               |
| Nov   | CCU European Classical Literature<br>Unit 3. <i>Macbeth</i>                     | 6               | CCU Popular Literature<br>Unit 1. <i>The Wonderful Wizard of Oz</i>   | 6               | BCE1. <i>Parables Literature</i><br>Unit 2. <i>Trains in Pakistan</i>  | 6               |
| Dec   | CCU European Classical Literature<br>Unit 3. <i>Macbeth</i>                     | 6               | CCU Popular Literature<br>Unit 1. <i>The Wonderful Wizard of Oz</i><br>BCE1. <i>Creative Writing</i><br>Unit 1. <i>'What is Creative Writing'</i> | 6               | BCE1. <i>Parables Literature</i><br>Unit 2. <i>Trains in Pakistan</i>  | 6               |

|     | Sem-III (20)   |        | Sem-IV (20)  |   | Sem-V (20)  |         |
|-----|--|--------|--|---|---|---------|
| Eng | CCN Indian Writing in English<br>Unit 3: Close-Read of Text                                    | 6      | CCN British Research Literature<br>Unit 4 (a) - 'This is a Nightingale' & 'The Artist' | 4 | CCN Postcolonial Literature<br>Unit 1: Things Fall Apart<br>Unit 2: Storm and the Sea of Cortez             | 8<br>10 |
| Eng | CCN Indian Writing in English<br>Unit 3: Close-Read of Text                                    | 6      | CCN British Research Literature<br>Unit 4 (a) - 'This is a Nightingale' & 'The Artist' | 4 | CCN Postcolonial Literature<br>Unit 1: Things Fall Apart<br>Unit 2: Storm and the Sea of Cortez             | 8<br>10 |
| Eng | CCN Indian Writing in English<br>Unit 3: Close-Read of Text                                    | 6      | CCN British Literature<br>Unit 3 (a) - 'The Lady of Shalott'                           | 3 | CCN Postcolonial Literature<br>Unit 1 (a) - 'Twilight Last Week'<br>Unit 2: Storm and the Sea of Cortez     | 3<br>6  |
| Eng | CCN British Poetry, Drama & Short-story and Prose<br>Unit 4: Fourth Night                      | 6      | CCN British Literature<br>Unit 2 (a) - 'My Last Duchess'                               | 4 | CCN Postcolonial Literature<br>Unit 2 (a) - 'A Pa Cup from Africa'<br>Unit 4: The Artist of Christ Church   | 3<br>6  |
| Eng | CCN British Poetry, Drama & Short-story and Prose<br>Unit 4: Fourth Night                      | 6      | HEC Film Studies<br>Unit 1: 'Response and Review'                                      | 4 | CCN Postcolonial Literature<br>Unit 1 (a) - 'Working Days'<br>Unit 4: The Artist of Christ Church           | 3<br>6  |
| Eng | CCN British Poetry, Drama & Short-story and Prose<br>Unit 3: 'Witness'<br>Unit 4: Fourth Night | 6<br>7 | HEC Film Studies<br>Unit 1: 'Response and Review'                                      | 4 | CCN Postcolonial Literature<br>Unit 2 (a) - 'Small Town and the Sea'<br>Unit 4: The Artist of Christ Church | 3<br>6  |

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**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF NARAVITA BOY**

**ENGLISH (Honours) (2021-22) (July 2021 – June 2022)**

| Month | Unit I (20)   | No. of Lectures | Unit II (20)  | No. of Lectures | Unit III (20)  | No. of Lectures |
|-------|---|-----------------|---|-----------------|--|-----------------|
| Jul   | CC1: European Classical Literature<br>Unit 1: Miscellaneous | 2               | CC3: American Literature<br>Unit 6: The Glass Menagerie<br>CC7: British Poetry and Drama<br>Unit 7: The Age of the Lord         | 4<br>4          | CC11: Women's Writing<br>Unit 8 (ii): 'The Yellow Wallpaper'   | 4<br>4          |
| Aug   | CC1: European Classical Literature<br>Unit 2: Miscellaneous | 2               | CC3: American Literature<br>Unit 4: The Glass Menagerie<br>CC7: British Poetry and Drama<br>Unit 7: The Age of the Lord         | 4<br>4          | CC11: Women's Writing<br>Unit 8 (ii): 'A Doll'   | 4<br>4          |
| Sept  | CC1: European Classical Literature<br>Unit 3: Miscellaneous | 2               | CC3: American Literature<br>Unit 4: The Glass Menagerie<br>CC7: British Poetry and Drama<br>Unit 7: The Age of the Lord         | 4<br>4          | CC11: Women's Writing<br>Unit 8 (ii): 'Doppel'   | 4<br>4          |
| Oct   | CC1: European Classical Literature<br>Unit 4: Miscellaneous | 2               | CC6: Popular Literature<br>Unit 1: The Wonderful Wizard of Oz   | 4               | CC11: Women's Writing<br>Unit 9 (i): 'Green Shoes'<br>BHE2: Postcolonial Literature<br>Unit 2: Train to Pakistan | 4<br>4          |
| Nov   | CC1: European Classical Literature<br>Unit 5: Miscellaneous | 2               | CC6: Popular Literature<br>Unit 1: The Wonderful Wizard of Oz   | 4               | BHE2: Postcolonial Literature<br>Unit 2: Train to Pakistan   | 4               |
| Dec   | CC1: European Classical Literature<br>Unit 6: Miscellaneous | 2               | CC6: Popular Literature<br>Unit 1: The Wonderful Wizard of Oz<br><br>BHE3: Creative Writing<br>Unit 3: 'Where Creative Writing' | 4<br>4          | BHE2: Postcolonial Literature<br>Unit 2: Train to Pakistan   | 4<br>4          |

| Sem-III (B) |   | Sem-IV (B) |   | Sem-V (B) |   |    |
|-------------|---|------------|---|-----------|---|----|
| Jan         | CCS Indian Writing in English<br>Unit 2: 'Clear Light of Day'           | 0          | CCS British Romantic Literature<br>Unit 4 (i) : 'Ode to a Nightingale' & 'The Ancestral'  | 0         | CCS Postcolonial Literature<br>Unit 1: 'Herman and the Son of Herman'         | 10 |
| Feb         | CCS Indian Writing in English<br>Unit 2: 'Clear Light of Day'           | 0          | CCS British Romantic Literature<br>Unit 4 (ii) : 'Ode to a Nightingale' & 'The Ancestral' | 0         | CCS Postcolonial Literature<br>Unit 1: 'Herman and the Son of Herman'         | 10 |
| Mar         | CCS Indian Writing in English<br>Unit 1: 'Clear Light of Day'           | 0          | CCS British Literature<br>Unit 2 (i) : 'The Lady of Shalott'                              | 0         | CCS Postcolonial Literature<br>Unit 1 (i) : 'Thought' and 'Write'             | 0  |
|             |   |            |   |           | Unit 1: 'Herman and the Son of Herman'  | 0  |
| Apr         | CCS British Poetry, Drama & Shorter and Prose<br>Unit 4: 'Fourth Sight' | 0          | CCS British Literature<br>Unit 2 (ii) : 'My Last Duchess'                                 | 0         | CCS Postcolonial Literature<br>Unit 2 (ii) : 'A Fair-Clay Doll About'         | 0  |
|             |   |            |   |           | Unit 4: 'The Arrow of Christ Shards'  | 0  |
| May         | CCS British Poetry, Drama & Shorter and Prose<br>Unit 4: 'Fourth Sight' | 0          | CCS Film Studies<br>Unit 1: 'Empire and Beyond'   | 0         | CCS Postcolonial Literature<br>Unit 2 (ii) : 'Swallowing Steel'               | 0  |
|             |   |            |   |           | Unit 4: 'The Arrow of Christ Shards'  | 0  |
| June        | CCS British Poetry, Drama & Shorter and Prose<br>Unit 1: 'Eternity'     | 0          | CCS Film Studies<br>Unit 1: 'Empire and Beyond'   | 0         | CCS Postcolonial Literature<br>Unit 2 (ii) : 'Swallowing Steel and the River' | 0  |
|             | Unit 4: 'Fourth Sight'  | 0          |   |           | Unit 4: 'The Arrow of Christ Shards'  | 0  |

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**DEPARTMENT OF MICROBIOLOGY**

**TEACHING PLAN OF RAMKRISHNA ROY**  
Microbiology (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)  | No. of Lecture               | Sem-III (H)  | No. of Lecture               | Sem-V (H)  | No. of Lecture               |
|-------|--|------------------------------|--|------------------------------|--|------------------------------|
| Jul   | <b>Theory:</b><br>CC1: Introduction to Microbiology and Microbial Diversity<br><br>Unit 1: History and Development of Microbiology<br><br><b>Practical</b><br>CC1: Introduction to Microbiology and Microbial Diversity<br><br>Study of <i>Rhizopus</i> , <i>Penicillium</i> and <i>Aspergillus</i> from permanent slides. | 4                            | <b>Theory</b><br>CC5: Microbial Physiology and Metabolism<br>Unit 5: Chemolithotrophic and Phototrophic Metabolism<br><br><b>Practical</b><br>CC5: Microbial Physiology and Metabolism<br>Effect of pH on growth of <i>E. coli</i> .<br><br><b>Theory</b><br>SEC1: Microbial Diagnosis in Health Clinics<br>Unit: 1: Importance of Diagnosis of Disease  | 8<br><br>2                   | <b>Theory</b><br>CC12: Immunology<br>Unit 3: Antigen<br><br><b>Practical</b><br>CC12: Immunology<br>Immunodiffusion by Ouchterlony method<br><br><b>Theory</b><br>DSE 1: Microbes in Sustainable Agriculture<br>Unit 1: Soil Microbiology<br><br><b>Practical</b><br>DSE 1: Microbes in Sustainable Agriculture<br>Isolation of Cellulose degrading organisms using CMC as substrate | 8<br><br>4<br><br>6<br><br>2 |
|       | <b>Theory:</b><br>CC2: Bacteriology<br>Unit 3: Nutrition<br><b>Practical</b><br>CC1: Introduction to Microbiology and Microbial Diversity<br>Study of <i>Spirogyra</i> and <i>Chlamydomonas</i> from permanent slides.<br>Study of <i>Paramecium</i> and <i>Plasmodium</i> from permanent slides.                          | 6<br><br>2<br><br>2          | <b>Theory</b><br>CC6: Cell Biology<br>Unit 5: Cell Cycle and Cancer<br>Eukaryotic Cell Cycle and its Regulation, Mitosis and Meiosis<br><b>Practical</b><br>CC6: Cell Biology<br>Study of different stages of Meiosis from Permanent slide<br><br><b>Theory</b><br>SEC1: Microbial Diagnosis in Health Clinics<br>Unit 2: Collection of Clinical Samples (How to collect clinical sample)  | 4<br><br>2<br><br>4          | <b>Theory</b><br>CC12: Immunology<br>Unit 6: Complement System<br><br><b>Practical</b><br>CC12: Immunology<br>DOT ELISA<br><br>DSE 1: Microbes in Sustainable Agriculture<br>Preparation of Rhizobium as soil inoculants and application   | 6<br><br>4<br><br>4          |
| Sept  | <b>Theory:</b><br>CC1: Introduction to Microbiology and Microbial Diversity<br><br>Unit 5: Mycology<br><br><b>Practical</b><br>CC2: Bacteriology<br>Gram's Staining<br><br>Negative Staining<br><br>Acid fast Staining- permanent slide  | 8<br><br>2<br><br>2<br><br>2 | <b>Theory</b><br>CC6: Cell Biology<br>Unit 5: Cell Cycle and Cancer<br>Development of Cancer, causes of Cancer.<br><b>Theory</b><br>CC7: Molecular Biology<br>Unit3, Transcription in Prokaryotes and Eukaryotes,<br>Transcription: Definition, Promoter, RNA Polymerase, Transcription unit,<br><b>Practical</b><br>CC7: Molecular Biology<br>Estimation of DNA and its purity check and estimation of Protein by using UV Spectrophotometer.<br><b>Theory</b><br>SEC1: Microbial Diagnosis in Health Clinics.<br>Unit 2: Collection of Clinical Samples (Method of transport of clinical samples to laboratory and storage.) | 4<br><br>6<br><br>2<br><br>2 | <b>Theory</b><br>CC11: Industrial Microbiology<br><br>Unit 1: Introduction to Industrial Microbiology<br><br>Unit 4: Down – stream processing<br><br><b>Practical</b><br>CC11: Industrial Microbiology<br><br>INDUSTRIAL VISIT   | 4<br><br>9<br><br>4          |



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|-----|---|------------|---|---------------------|--|----------------|
| Oct | <b>Theory:</b><br><b>CC2: Bacteriology</b><br>Unit 7: Important Archaeal and Bacterial Groups.  | 4          | <b>Theory</b><br><b>CC7: Molecular Biology</b><br>Unit 3: Transcription in Prokaryotes and Eukaryotes,<br>Transcription in Eukaryotes.<br><b>CC7: Molecular Biology</b><br>Unit 4: Post- Transcriptional Processing<br><br><b>Practical</b><br><b>CC6: Cell Biology</b><br>Study of Polyploidy in Onion Root tip by Colchicine Treatment.   | 2<br>4<br>4         | <b>Theory</b><br><b>DSE 2: Instrumentation and Biotechniques</b><br>Unit 4: Electrophoresis<br><br><b>Practical</b><br><b>DSE 2: Instrumentation and Biotechniques</b><br><br>Demonstration of Column packing in gel filtration chromatography.                        | 5<br><br>2     |
|     | <b>Theory:</b><br><b>CC2: Bacteriology</b><br>Unit 7: Important Archaeal and Bacterial Groups<br><br><b>Practical</b><br><b>CC 2: Bacteriology</b><br>Endospore Staining                      | 4<br><br>2 | <b>Theory</b><br><b>CC7: Molecular Biology</b><br>Unit 4: Post- Transcriptional Processing.<br>RNA interference: si RNA and mi RNA.<br><br><b>CC5: Microbial Physiology and Metabolism.</b><br>Unit 2: Nutrient uptake and Transport.<br><br><b>Practical</b><br><b>CC5: Microbial Physiology and Metabolism.</b><br><br>Effect of different concentration of glucose on growth of <i>E. coli</i> | 2<br><br>6<br><br>2 | <b>Theory</b><br><b>DSE 2: Instrumentation and Biotechniques</b><br>Unit 4: Electrophoresis<br><br><b>Practical</b><br><b>DSE 2: Instrumentation and Biotechniques</b><br><br>Separation of Protein mixtures by Polyacrylamide Gel Electrophoresis( PAGE)              | 5<br><br><br>4 |
|     | <b>Theory:</b><br><b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>Special classes + doubt clearing+ discussions<br><br><b>Practical</b><br>Practice classes               | 4<br><br>2 | <b>Theory</b><br><b>CC5: Microbial Physiology and Metabolism</b><br><br>Unit 5: Chemolithotrophic and Phototrophic Metabolism<br><b>(Revision class)</b>  | 4                   | <b>Theory</b><br><b>DSE1: DSE 1: Microbes in Sustainable Agriculture</b><br><br>Unit 2: Microbial Activity in Soil and Green House Gases   | 6              |
| Jan | <b>Sem-II (H)</b>   |            | <b>Sem-IV (H)</b>   |                     | <b>Sem-VI (H)</b>  |                |
|     | <b>Theory</b><br><b>CC3: Biochemistry</b><br>Unit 2: Carbohydrates<br><br><b>Practical</b><br><b>CC 3: Biochemistry</b><br><br>Qualitative/ Quantitative tests for Carbohydrates (DNS method) | 4<br><br>2 | <b>Theory</b><br><b>CC 9: Environmental Microbiology</b><br>Unit 4: Waste Management<br><br><b>Practical</b><br><b>CC 9: Environmental Microbiology</b><br><br>Isolation of Cellulose degrading microbes by enrichment culture technique.<br><br><b>Theory</b><br><b>SEC2: Food Fermentation Techniques</b><br>Unit 2: Milk Based Fermented Foods   | 8<br><br>2<br><br>3 | <b>Theory</b><br><b>CC 14: Recombinant DNA Technology</b><br>Unit 2: Molecular Cloning-Tools and Strategie<br><br><b>Theory</b><br><b>DSE4: Biosafety and Intellectual property Rights.</b><br><br>Unit 1: Bio-safety: Introduction, Biosafety issues in Biotechnology | 5<br><br><br>2 |

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|-----|---|---|--|
| Feb | <p><b>Theory</b></p> <p><b>CC3: Biochemistry</b></p> <p>Unit 1: Carbohydrates (Sugar Derivatives and Polysaccharides)</p> <p>4</p>  | <p><b>Theory</b></p> <p><b>CC10: Food and Dairy Microbiology</b></p> <p>Unit 4: Fermented Food</p> <p>4</p>                               | <p><b>Theory</b></p> <p><b>CC14: Recombinant DNA Technology .</b></p> <p>Unit 2: Molecular Cloning- Tools and Strategies</p> <p>5</p>  |
|     | <p><b>Practical</b></p> <p><b>CC3: Biochemistry</b></p> <p>Qualitative/ Quantitative tests for Proteins( Lowry method)</p> <p>2</p> | <p><b>Practical</b></p> <p><b>CC10: Food and Dairy Microbiology</b></p> <p>Study of Microorganisms from dahi</p> <p>2</p>                 | <p><b>Practical</b></p> <p><b>CC14: Recombinant DNA Technology .</b></p> <p>Demonstration of Southern Blotting.</p> <p>2</p>   |
|     |   | <p><b>Theory</b></p> <p><b>SEC2: : Food Fermentation Techniques</b></p> <p>Unit 2: Milk Based Fermented Foods</p> <p>3</p>                | <p><b>Theory</b></p> <p><b>DSE4: Biosafety and Intellectual property Rights</b></p> <p>Unit 1: Biological safety cabinets and their types, Primary containment for Biohazards.</p> <p>2</p>          |
| Mar | <p><b>Theory</b></p> <p><b>CC3: Biochemistry</b></p> <p>Unit 1: Bioenergetics</p> <p>5</p>  | <p><b>Theory</b></p> <p><b>CC10: Food and Dairy Microbiology</b></p> <p>Unit 4: Fermented Food</p> <p>4</p>                               | <p><b>Theory</b></p> <p><b>CC14: Recombinant DNA Technology .</b></p> <p>Unit 2: Molecular Cloning- Tools and Strategies.</p> <p>2</p>   |
|     | <p><b>Practical</b></p> <p><b>CC3: Biochemistry</b></p> <p>Qualitative/ Quantitative tests for AminoAcids(Ninhydrin)</p> <p>2</p>   | <p><b>Practical</b></p> <p><b>CC10: Food and Dairy Microbiology.</b></p> <p>Isolation of Spoilage Microorganisms from bread.</p> <p>4</p> | <p><b>CC 13: Medical Microbiology</b></p> <p>Unit 6: Fungal Diseases</p> <p>5</p>  |
|     | <p>Qualitative/ Quantitative tests for DNA ( Diphenyl amine)</p> <p>2</p>   | <p><b>CC 9: Environmental Microbiology</b></p> <p>Assessment of microbiological quality of water by MPN test</p> <p>2</p>                 | <p><b>Practical</b></p> <p><b>CC 13: Medical Microbiology</b></p> <p>Determination of Minimal Inhibitory Concentration(MIC) of Antibiotics</p> <p>2</p>  |
|     |   | <p><b>Theory</b></p> <p><b>SEC2: Food Fermentation Techniques</b></p> <p>Unit 3: Grain Based Fermented Foods</p> <p>5</p>                 | <p><b>Theory</b></p> <p><b>DSE4: Biosafety and Intellectual property Rights</b></p> <p>Unit 6: Agreements and Treaties</p> <p>8</p>  |
| Apr | <p><b>Theory</b></p> <p><b>CC4: Virology</b></p> <p>Unit 5: Prevention and Control of Viral Diseases.</p> <p>8</p>                  | <p><b>Theory</b></p> <p><b>CC 8: Microbial Genetics</b></p> <p>Unit 5: Transposable Elements</p> <p>8</p>                                 | <p><b>Theory</b></p> <p><b>CC13: Medical Microbiology</b></p> <p>Unit 7: Antimicrobial agents: Source, General characteristics and mode of action</p> <p>8</p>                                       |
|     | <p><b>Practical</b></p> <p><b>CC4: Virology</b></p> <p>Report Writing Educational Tour to Institute/ Industry.</p> <p>4</p>         | <p><b>Practical</b></p> <p><b>CC 8: Microbial Genetics</b></p> <p>Isolation of Plasmid DNA from <i>E. coli</i></p> <p>4</p>               | <p><b>Practical</b></p> <p><b>CC13: Medical Microbiology</b></p> <p>Identify bacteria (<i>E. coli</i>, <i>Staphylococcus</i>, <i>Bacillus</i>) using laboratory strains on the basis of</p> <p>5</p> |

|      |  |   |   |   |  |                            |
|------|--|---|---|---|--|----------------------------|
|      |  |   |   |   | <p>culture, morphological and biochemical characteristics: Urease production</p> <p>Catalase test</p> <p><b>DSE4: Biosafety and Intellectual property Rights</b><br/>Study of components and design of a BSL-III laboratory using audio-visual aids</p>          | <p>2</p> <p>2</p> <p>2</p> |
| May  | <p><b>Theory</b></p> <p><b>CC3: Biochemistry</b></p> <p>Unit 6: Vitamins</p>   | 4 | <p><b>Theory</b></p> <p><b>CC 10: Food and Dairy Microbiology</b></p> <p>Unit 2: Microbial Spoilage of various foods.</p>   | 8 | <p><b>Theory</b></p> <p><b>DSE 3: Advances in Microbiology</b></p> <p>Unit 1: Evolution of Microbial Genomes</p> <p>Unit 2: Metagenomics</p>   | 8                          |
|      | <p><b>Practical</b></p> <p><b>CC4: Virology</b></p> <p>Isolation of Bacteriophage DNA and study of its HindIII digestion pattern</p> | 4 | <p><b>Practical</b></p> <p><b>CC 8: Microbial Genetics</b></p> <p>Study of different conformation of plasmid DNA through Agarose gel electrophoresis using DNA ladder</p> | 4 | <p><b>Practical</b></p> <p><b>CC14: Recombinant DNA Technology</b></p> <p>Digestion of DNA using Restriction enzyme and analysis by agarose gel Electrophoresis</p> <p><b>DSE 3: Advances in Microbiology</b></p> <p>Extraction of metagenomic DNA from soil</p> | 2                          |
| June | <p><b>Theory</b></p> <p><b>CC3: Biochemistry</b></p> <p>Unit 2: Carbohydrates</p> <p>Unit 1: Bioenergetics</p>                       | 2 | <p><b>Theory</b></p> <p><b>CC10: Food and Dairy Microbiology</b></p> <p>Special class</p>   | 2 | <p><b>Theory</b></p> <p><b>DSE 3: Advances in Microbiology</b></p> <p>Unit 2: Metagenomics</p>   | 5                          |
|      | <p>Special class</p>   | 2 | <p><b>Practical</b></p> <p><b>CC10 : Food and Dairy Microbiology and CC 9 : Environmental Microbiology</b></p> <p>[Repeat practical Class]</p>                            | 2 | <p><b>Practical</b></p> <p><b>CC14: Recombinant DNA Technology</b></p> <p>Determination of molecular size of DNA fragment by agarose gel Electrophoresis</p> <p>Quantification and purity checking of Extracted metagenomic DNA.</p>                             | 4                          |

*Ramkrishna Roy.*

Signature of Teacher  
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**DEPARTMENT OF MASS COMMUNICATION & JOURNALISM**

**TEACHING PLAN – SANCHITA CHATTERJEE 2020-21**

| MONTH     | SEM –I ( H)   | NO. OF LECTURE | SEM-III(H)   | NO. OF LECTURE | SEM-V (H)   | NO. OF LECTURE |
|-----------|---|----------------|--|----------------|---|----------------|
| JULY      | CC-1<br>INTRODUCTION TO JOURNALISM<br>UNIT- 1 – UNDERSTANDING NEWS INGREDIENTS OF NEWS              | 9              | CC-7<br>ADVERTISEMENT AND PUBLIC RELATIONS<br>UNIT-1<br>INTRODUCTION TO ADVERTISEMENT, HISTORY, IMPORTANCE & FUNCTION OF AD.<br>AD. AS A TOOL OF COMMUNICATION | 8              | CC-12<br>INTRODUCTION TO FILM STUDIES<br>UNIT -1<br>BIRTH OF CINEMA, MAGIC LANTERN TO MOVING PICTURES, LUMIÈRE TO GRIFFITH, CHARLIE CHAPLIN, HOLLYWOOD STUDIO SYSTEM, BRIEF HISTORY OF SILENT ERA | 10             |
| AUGUST    | CC-1<br>UNIT -1<br>THE NEWS PROCESS, SUBJECTIVITY & OBJECTIVITY OF NEWS, PROXIMITY OF NEWS          | 10             | CC-7<br>UNIT -1<br>ROLE OF AD. IN MARKETING MIX, PR & AD. , AD. THEORIES AIDA , DAGMAR, MASLOW’S HIERARCHY MODEL, THEORIES APPLIED TO AD.                      | 12             | CC-12<br>UNIT -1<br>DADA SAHEB PHALKE, NEW THEATRE, PRABHAT STUDIO, NEW TALKIES<br>UNIT-2<br>STAGES OF FILM MAKING, FILM LANGUAGES, IMAGE & SOUND CODE, REAL FILMIC TIME, MONTAGE, MISE-EN- SCENE | 14             |
| SEPTEMBER | CC-1<br>UNIT 1<br>ETHICS OF JOURNALISM, HARD NEWS VS. SOFT NEWS, ATTRIBUTION, EMBARGO, VERIFICATION | 10             | CC-7<br>UNIT -1<br>TYPES OF AD. & NEW TRENDS, ECONOMIC , CULTURAL, PSYCHOLOGICAL AND SOCIAL ASPECT OF AD.<br>ETHICAL & REGULATORY ASPECTS OF AD – AAAI, ASCI   | 14             | CC-12<br>UNIT -3<br>CLASSIFICATION OF CINEMA, FILM GENRE, FICTION & NON- FICTION FILM, FILM & SOCIETY, FILM AS AN ART, FILM AS A MEDIUM OF MASS COMMUNICATION, FILM CENSORSHIP                    | 16             |
| OCTOBER   | CC-1<br>UNIT-1<br>BALANCE & FAIRNESS, BREVITY, DATELINE, CREDIT LINE, BYLINE                        | 5              | CC-7<br>UNIT -2<br>AD. THROUGH PRINT, ELECTRONIC & ONLINE MEDIA , TYPES OF MEDIA FOR AD.<br>AD. OBJECTIVES   | 5              | CC-12<br>UNIT -4<br>FILM LANGUAGE – SHOT, SCENE, SEQUENCE   | 6              |

|          |  |                   |  |                   |  |                   |
|----------|--|-------------------|--|-------------------|--|-------------------|
| NOVEMBER | CC-1<br>UNIT -4<br>DIFFERENT MEDIUMS -A<br>COMPARISON, LANGUAGE AND<br>PRINCIPLE of SOFT WRITING,<br>BASIC DIFFERENCE BETWEEN THE<br>PRINT, ELECTRONIC & ONLINE<br>JOURNALISM,<br>CITIZEN JOURNALISM | 12                | CC-7<br>UNIT -2<br>SEGMENTATION,<br>POSITIONING, TARGETING<br>MEDIA SELECTION, PLANNING,<br>SCHEDULING , RESEARCH AND<br>BRANDING,AD. DEPARTMENT<br>VS. AGENCY – STRUCTURE AND<br>FUNCTION, AD. BUDGET,<br>CAMPAIGN PLANNING | 14                | CC-12<br>UNIT-4<br>FILM LANGUAGES<br>CAMERA, LIGHTING, SOUND, EDITING<br>INDIAN MASTERS – SATYAJIT RAY,<br>RITWIK GHATAK       | 8                 |
| DECEMBER | CC-2<br>UNIT -1<br>MEDIA AND EVERYDAY LIFE   | 4                 | CC-7<br>UNIT -5<br>SOCIAL MEDIA<br>MARKETING,<br>IMC, DEVELOPING SOCIAL<br>NETWORKS, STRATEGIES,<br>ETHICS, SOCIAL MEDIA<br>TOOLS, ROI   | 7                 | CC-12<br>UNIT -5<br>FILM PRACTICES- NARRATIVE<br>FORM, CLASSICAL HOLLYWOOD<br>CINEMA, ITALIAN NEO- REALISM,<br>FRENCH NEW WAVE | 6                 |
|          | SEM-II (H)   | NO. OF<br>LECTURE | SEM-IV (H)   | NO. OF<br>LECTURE | SEM-VI (H)   | NO. OF<br>LECTURE |
| JANUARY  | CC-3<br>REPORTING AND EDITING<br>FOR PRINT<br>UNIT-1<br>COVERING NEWS,<br>REPORTER -ROLE,<br>FUNCTIONS AND QUALITIES,<br>COVERING OF BEATS<br><br>PRACTICAL – BEAT<br>REPORTING                      | 9<br><br>3        | SEC -3<br>DOCUMENTARY<br>PRODUCTION<br>UNIT -1<br>UNDERSTANDING THE<br>DOCUMENTARY,<br>INTRODUCTION TO<br>REALISM, DEBATE ,<br>OBSERVATIONAL AND<br>VERITE DOCUMENTARY   | 7                 | DSE -3<br>DISSERTATION<br>TOPIC SELECTION, ABSTRACT<br>INTRODUCTION<br>LITERATURE REVIEW                                       | 10                |
| FEBUARY  | CC-3<br>UNIT-1<br>COVERING SPEECHES,<br>MEETINGS AND PRESS<br>CONFERENCES,<br>NEWS AGENCY REPORTING  | 9                 | SEC -3<br>UNIT -1<br>SHOOTING STYLE,<br>INTRODUCTION TO<br>EDITING STYLE,<br>STRUCTURE AND<br>SCRIPTING OF A<br>DOCUMENTARY  | 7                 | DSE -3<br>RESEARCH PROBLEMS,<br>AIM<br>OBJECTIVES  | 12                |

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|-------|---|---|---|---|---|----|
| MARCH | CC-4<br>UNIT -1<br>GROWTH AND<br>DEVELOPMENT OF THE<br>PRESS IN INDIA AND<br>ABROAD, EARLY DAYS OF<br>THE PRESS                 | 8 | SEC-3<br>UNIT -2<br>DOCUMENTARY<br>PRODUCTION, PRE –<br>PRODUCTION  | 6 | DSE -3<br>METHODOLOGY<br>DATA COLLECTION          | 16 |
| APRIL | ÇÇ – 4<br>UNIT-1<br>CONTRIBUTIONS OF EARLY<br>THINKERS IN COLONIAL<br>INDIA- JAMES AUGUSTUS<br>HICKEY, JAMES SILK<br>BUCKINGHAM | 7 | SEC -3<br>UNIT -2<br>RESEARCHING THE<br>DOCUMENTARY: LIBRARY,<br>ARCHIVES, LOCATION, LIFE<br>STORIES, ETHNOGRAPHY,<br>WRITING A CONCEPT,<br>TELLING A STORY | 8 | DSE -3<br>FINDINGS AND<br>DATA ANALYSIS           | 14 |
| MAY   | CC-4<br>UNIT -1<br>MISSIONARY OF BAPTISTS,<br>WILLIAM CAREY   | 6 | SEC-3<br>UNIT -2<br>TREATMENT, WRITING A<br>PROPOSAL AND<br>BUDGETING   | 6 | DSE -3<br>CONCLUSION<br>BIBLIOGRAPHY<br>REFERENCE | 8  |
| JUNE  | CC-4<br>UNIT -5<br>CABLE TV AND SATELLITE<br>TELEVISION   | 4 | SEC -3<br>PRACTICAL –<br>DOCUMENTARY SHOOTING<br>DOCUMENTARY EDITING  | 6 | DSE -3<br>DISSERTATION<br>SUBMISSION              |    |
|       |   |   |   |   |   |    |

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**SURI VIDYASAGAR COLLEGE**  
**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF DR> SUSANTA KUMAR BARDHAN**  
**ENGLISH (Honours) (2020-21) (July 2020 - June 2021)**

| Month | Sem-I (H)   | No. of Lectures            | Sem-III (H)   | No. of Lectures   | Sem-V (H)  | No. of Lectures   |
|-------|---|----------------------------|---|---|--|---|
| Jul   | CC1: Indian Classical Literature<br>Unit 1: Vyasa 'The Book of the Assembly Hall', in The Mahabharata | Lectures 7 + Tutorial 1 =8 | CC5: American Literature<br>Unit 1: Mark Twain's <i>The Adventures of Tom Sawyer</i>  | Lectures 9 + Tutorial 1 =10                                 | DDE2: Partition Literature<br>Unit 1: Arjun Ghosh's <i>The Shadow Lines</i>  | Lectures 14 + Tutorial 2 =16                                  |
| Aug   | CC1: Indian Classical Literature<br>Unit 3: Vyasa 'The Book of the Assembly Hall', in The Mahabharata | Lectures 7 + Tutorial 1 =8 | CC5: American Literature<br>Unit 1: Mark Twain's <i>The Adventures of Tom Sawyer</i><br><br>CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i> | Lectures 8 + Tutorial 2 =10<br><br>Lectures 4 + Tutorial =4 | DDE2: Partition Literature<br>Unit 1: Arjun Ghosh's <i>The Shadow Lines</i><br><br>DDE3: Modern Indian Writing<br>Rabindranath Tagore: <i>Gitanjali</i><br>+ 'When the mind is without fear'   | Lectures 8 + Tutorial 2 =10<br><br>Lectures 4 + Tutorial 2 =6 |
| Sept  | CC1: Indian Classical Literature<br>Unit 3: Vyasa 'The Book of the Assembly Hall', in The Mahabharata | Lectures 4 + Tutorial 2 =6 | CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i>   | Lectures 10 + Tutorial 2 =12                                | DDE3: Modern Indian Writing<br>Rabindranath Tagore: <i>Gitanjali</i><br>+ 'Leave thy chanting and singing and telling beads'<br>+ 'Act thou abroad on this stormy night'<br>+ 'Obstinate are the seasons, but my heart when I try to break them' | Lectures 18 + Tutorial 3 =21                                  |
| Oct   | CC2: European Classical Literature<br>Unit 2: Sophocles' <i>Oedipus the King</i>                      | Lectures 7 + Tutorial 1 =8 | CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i>   | Lectures 4 + Tutorial 2 =6                                  | CC11: Women's Writing<br>Unit 1a) Emily Dickinson: 'I cannot live with you', 'I'm with, I've finished that'<br><br>CC12: British Literature (Early 20 <sup>th</sup> Century)<br>Unit 1: Virginia Woolf: <i>Mrs. Dalloway</i>                     | Lectures 5 + Tutorial 1 =6<br><br>Lectures 2 + Tutorial 9 =2  |
| Nov   | CC2: European Classical Literature<br>Unit 2: Sophocles' <i>Oedipus the King</i>                      | Lectures 7 + Tutorial 1 =8 | CC7: British Poetry and Drama<br>Alfred, Lord Tennyson's <i>Drama</i>   | Lectures 12 + Tutorial 2 =14                                | CC12: British Literature (Early 20 <sup>th</sup> Century)<br>Unit 1: Virginia Woolf: <i>Mrs. Dalloway</i>  | Lectures 10 + Tutorial 2 =12                                  |
| Dec   | CC2: European Classical Literature<br>Unit 2: Sophocles' <i>Oedipus the King</i>                      | Lectures 6 + Tutorial 2 =8 | SECI: Creative Writing<br>Unit 1: 'What is Creative Writing?'   | Lectures 3 + Tutorial 1 =4                                  | CC12: British Literature (Early 20 <sup>th</sup> Century)<br>Unit 1: Virginia Woolf: <i>Mrs. Dalloway</i>  | Lectures 4 + Tutorial 2 =6                                    |
| Jan   | Sem-II (H)  |                            | Sem-IV (H)  |   | Sem-VI (H)   |   |

|     |   |                             |  |  |  |  |
|-----|---|-----------------------------|--|--|--|--|
|     | CC1: Indian Writing in English<br><br>Unit 1: Lal Behari Day's Gopinda Samanta Or The History of Bengal Rayat | Lecture 7 + Tutorial 1 = 8  | CC8: British Literature<br><br>DeVoe's <i>Moll Flanders</i>  | Lecture 14 + Tutorial 3 = 17                                 | D8E4: Criticism and History of English Language and Criticism<br><br>1. History of the English Language.<br><br>a) Evolution of the English language/Semantic Change, Standardization, Outgrowing Gender Bias)   | Lecture 4 + Tutorial 1 = 7                                 |
| Feb | CC3: Indian Writing in English<br><br>Unit 1: Lal Behari Day's Gopinda Samanta Or The History of Bengal Rayat | Lecture 7 + Tutorial 1 = 8  | CC9: British Romantic Literature<br><br><i>Austen's Pride and Prejudice</i>  | Lecture 14 + Tutorial 1 = 15                                 | D8E4: Criticism and History of English Language and Criticism<br>a) Evolution of the English language/Semantic Change, Standardization, Outgrowing Gender Bias)<br><br>b) Form, Translation, Individual contribution and the English language (Christianization, Bible, Shakespeare)                             | Lecture 2 + Tutorial 1 = 3<br><br>Lecture 3 + Tutorial = 3 |
| Mar | CC3: Indian Writing in English<br><br>Unit 1: Lal Behari Day's Gopinda Samanta Or The History of Bengal Rayat | Lecture 4 + Tutorial 2 = 6  | CC9: British Romantic Literature<br><br><i>Austen's Pride and Prejudice</i> (18+)<br><br>CC16: British Literature (19 <sup>th</sup> Century)<br><br>Unit 1: <i>Jane Eyre</i> | Lecture 4 + Tutorial 2 = 6<br><br>Lecture 8 + Tutorial 1 = 9 | D8E4: Criticism and History of English Language and Criticism<br>b) Form, Translation, Individual contribution and the English language (Christianization, Bible, Shakespeare)<br><br>c) Enrichment of the English language (Latin, French, Scandinavian Influences and the Influence of Science and Technology) | Lecture 5 + Tutorial 2 = 7<br><br>Lecture 3 + Tutorial = 3 |
| Apr | CC4: British Poetry, Drama & Rhetoric and Prose<br><br>Unit 1: <i>Rhetoric and Prose</i>                      | Lecture 4 + Tutorial 1 = 5  | CC9: British Literature (19 <sup>th</sup> Century)<br><br>Unit 1: <i>Jane Eyre</i>   | Lecture 11 + Tutorial 2 = 14                                 | D8E4: Criticism and History of English Language and Criticism<br><br>c) Enrichment of the English language (Latin, French, Scandinavian Influences and the Influence of Science and Technology)<br><br>d) Expansion of Vocabulary & Branching Off (Word Formation, Indian English & American English)            | Lecture 5 + Tutorial 2 = 7<br><br>Lecture 3 + Tutorial = 3 |
| May | CC4: British Poetry, Drama & Rhetoric and Prose<br><br>Unit 1: <i>Rhetoric and Prose</i>                      | Lecture 8 + Tutorial 2 = 10 | CC16: British Literature (19 <sup>th</sup> Century)<br><br>Unit 1: <i>Jane Eyre</i>  | Lecture 5 + Tutorial 2 = 7                                   | D8E4: Criticism and History of English Language and Criticism<br><br>d) Expansion of Vocabulary & Branching Off (Word Formation, Indian English & American English)  | Lecture 5 + Tutorial 2 = 7                                 |



| June | Remedial Class (on Demand) | Remedial Class (on Demand) | Remedial or Extra Classes on the demand of the Students |
|------|----------------------------|----------------------------|---|
|      |                            |                            |   |

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**SURI VIDYASAGAR COLLEGE**  
**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF DR- SUSANTA KUMAR BARDHAN**

**ENGLISH (Honours) (2021-22) (July 2021 - June 2022)**

| Month | Sem-I (H)   | No. of Lectures              | Sem-III (H)   | No. of Lectures   | Sem-V (H)   | No. of Lectures   |
|-------|---|------------------------------|---|---|---|---|
| Jul   | CC1: Indian Classical Literature<br>Unit 1: Vyasa: 'The Book of the Assembly Hall', in <i>The Mahabharata</i> | Lectures 7 + Tutorial 1 =8   | CC3: American Literature<br>1. a) Edgar Allan Poe: 'The Purloined Letter'<br><br>c) William Faulkner: 'Dry September'   | Lecture 8 + Tutorial 2 =10<br><br>Lecture 4 + Tutorial 1 =5 | DSE2: Partition Literature<br>Unit 1:Amrita Ghosh's <i>The Shadow Lines</i>   | Lecture 14 + Tutorial 2 =16                                 |
| Aug   | CC1: Indian Classical Literature<br>Unit 1: Vyasa: 'The Book of the Assembly Hall', in <i>The Mahabharata</i> | Lecture 7 + Tutorial 1 =8    | CC: 7: British Poetry and Drama (17 <sup>th</sup> & 18 <sup>th</sup> Century)<br>Aphra Behn's <i>Oroonoko</i><br><br>Agatha Christie <i>The Murder of Roger Ackroyd</i> | Lecture 12 + Tutorial 2 =14<br><br>Lecture 2 + Tutorial =2  | DSE2: Partition Literature<br>Unit 1:Amrita Ghosh's <i>The Shadow Lines</i><br><br>DSE1: Modern Indian Writing<br>Rabindranath Tagore: <i>Gitanjali</i><br>• "Where the mind is without fear"   | Lecture 8 + Tutorial 2 =10<br><br>Lecture 4 + Tutorial 2 =6 |
| Sept  | CC1: Indian Classical Literature<br>Unit 1: Vyasa: 'The Book of the Assembly Hall', in <i>The Mahabharata</i> | Lectures 4 + Tutorial 2 =6   | CC5: American Literature<br>2b) F. Scott Fitzgerald: 'The Crack-up'<br><br>CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i>                | Lecture 8 + Tutorial 2 =10<br><br>Lecture 4 + Tutorial 1 =5 | DSE1: Modern Indian Writing<br>Rabindranath Tagore: <i>Gitanjali</i><br>• "Leave thy chattering and singing and telling beads"<br>• "Act thou abroad on this stormy night"<br>• "Obstinate are the travellers, but my heart aches when I try to break them" | Lecture 15 + Tutorial 3 =18                                 |
| Oct   | CC2: European Classical Literature<br>Unit 2: 'Sophocles' <i>Oedipus the King</i>                             | Lectures 10 + Tutorial 2 =12 | CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i>   | Lecture 10 + Tutorial 2 =12                                 | CC11: Women's Writing<br>Unit 1a) Emily Dickinson: 'I cannot live with you', 'I'm with: I've finished that'<br><br>CC12: British Literature (Early 20 <sup>th</sup> Century)<br>Unit 1: Virginia Woolf: <i>Mrs. Dalloway</i>                                | Lecture 5 + Tutorial 1 =6<br><br>Lecture 2 + Tutorial 0 =2  |
| Nov   | CC2: European Classical Literature<br>Unit 2: 'Sophocles' <i>Oedipus the King</i>                             | Lectures 10 + Tutorial 2 =12 | CC6: Popular Literature<br>Agatha Christie <i>The Murder of Roger Ackroyd</i><br>SEC1: Creative Writing<br>Unit 3: "What is Creative Writing?"                          | Lecture 2 + Tutorial 2 =4<br><br>Lecture 3 + Tutorial 1 =4  | CC12: British Literature (Early 20 <sup>th</sup> Century)<br>Unit 1: Virginia Woolf: <i>Mrs. Dalloway</i>   | Lecture 10 + Tutorial 2 =10                                 |
| Dec   | Remedial Class (on Demand)  |                              | Remedial Class (on Demand)  |   | Remedial Class (on Demand)  |   |
| Jan   | Sem-II (H)  |                              | Sem-IV (H)  |   | Sem-VI (H)  |   |





**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF PROF SAURAV CHAKRABARTI**

English (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|---|----------------|---|----------------|--|----------------|
| Jul   | Theory:<br>CC1: Indian Classical Literature<br>Introduction to Bharata's Natyasastra<br><br>Unit 2: Mrichhakatika (Introduction and text) | 4<br><br>4     | CC3: American Literature<br>Unit 3: Poetry<br>Introduction<br>i) Prologue                 | 4+5            | CC11: Women's Writing<br>Unit: Wide Sargasso Sea   | 12             |
| Aug   |   |                | CC3: American Literature<br>Unit 3: Poetry<br>ii) Crew Testament<br>iii) Passage to India | 5+5            | CC11: Women's Writing<br>Unit 4: Wide Sargasso Sea<br><br>CC12: Early 20 <sup>th</sup> C. British Literature<br>Unit4: Portrait of the Artist as a Young Man | 6<br><br>4     |
| Sept  | CC1: Mrichhakatika (continued)  | 8              | CC3: Popular Literature<br>Unit 4: Yonis in Tibet (Introduction and text)                 | 10             | CC12: Early 20 <sup>th</sup> C. British Literature<br>Unit4: Portrait of the Artist as a Young Man   | 12             |

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|-----|--|-----|---|------------|---|-----|
| Oct | CC1: Mricchakatika (completed)   | 8   | CC6: Popular Literature Unit 4: Tintin in Tibet (continued)   | 18         | DSE-1A: Indian Writing in English Translation Unit 4: Hind Swaraj (Swaraj and Passive Resistance) | 6+6 |
| Nov | CC2: Classical European Literature Unit: Pot of Gold Introduction and text                 | 4+4 | CC6: Popular Literature Unit 4: Tintin in Tibet (completed)<br><br>SECI: Creative Writing Unit 2      | 5<br><br>5 | DSE-1A: Indian Writing in English Translation Unit 4: Hind Swaraj (Education)                     | 8   |
| Dec | CC2: Pot of Gold (continued)   | 8   |   |            | Revision  | 6   |
|     | CC2: Pot of Gold (completed)   | 8   | Revision  | 8          |   |     |
| Jan | Sem-II (H)   |     | Sem-IV (H)  |            | Sem-VI (H)  |     |
|     | CC3: Indian Writing in English Unit 3: Poetry (Introduction)<br>①The Night of the Scorpion | 2+4 | CC5: 18 <sup>th</sup> British Literature<br>CC3: Unit 4<br>Gulliver's Travels (Introduction and Text) | 4+6        | CC3: Modern European Drama<br>Unit: A Doll's House  | 16  |
|     |  |     |   | 2          |   |     |
|     |  |     |   | 2          |   |     |

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|     |   |   |   |     |   |            |
| Feb |   |   |   |     |   |            |
|     |   |   |   |     |   |            |
| Mar | CC3: Unit 3 (Poetry)<br>ii) Freedom to the Slave          | 6 | CC3: 18 <sup>th</sup> C British Literature<br>Unit 4: Gulliver's Travels<br>(continued and completed) | 10  | CC13: Modern<br>European Drama<br>Unit 1: A Dolls' House<br>(completed)<br><br>Unit 2: Waiting for<br>Godot | 8<br><br>8 |
|     |   |   |   |     |   |            |
| Apr | CC3: Unit 3 (Poetry)<br>iii) Introduction<br>(Kamala Das) | 4 | CC3: British Romantic<br>Literature<br>ii) Graysonian<br>Ode in the West<br>Wind                      | 5+5 | CC13: Modern<br>European Drama<br>Unit 2: Waiting for<br>Godot (completed)                                  | 16         |
|     |   |   |   |     |   |            |
|     | CC3: Unit 3   |   | CC3: British Romantic<br>Literature   |     | CC13: Modern<br>European Drama  | 16         |

|      |                                    |   |   |    |  |    |
|------|------------------------------------|---|---|----|--|----|
| Mar  | (Poetry)<br>(a) A Psalm for Mother | 6 | 80<br>Childe Harold's<br>Pilgrimage   | 18 | Unit 3: Renaissance  |    |
|      | Revision                           | 4 | CC9: British Romantic<br>Literature<br>(i) Childe Harold's<br>Pilgrimage<br>(completed)<br><br>CC10: 19 <sup>th</sup> C British Literature<br>Unit 4: Gothic Market | 4  | CC13: Modern<br>European Drama<br>Unit 4: The Good<br>Women of Schweigen | 18 |
| June |                                    |   | SEC 2: Film Studies<br>Unit 2: Cinematic Techniques<br>and Devices  | 5  | Revision   | 18 |
|      |                                    |   | Revision  | 5  |  |    |

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## TEACHING PLAN OF SUMAN RUDRA

(2020-2021)

| MONTH     | SEM-I (H)  | NO. OF LECTURE | SEM-III(H)  | NO. OF LECTURE | SEM-V (H)   | NO. OF LECTURE |
|-----------|--|----------------|---|----------------|---|----------------|
| JULY      | CC-1<br>Role of Media in a Democracy, Responsibility to Society. Press and Democracy.<br>UNIT- 5   | 4              | SEC-1<br>Broadcast Formats<br>Public service advertisements.<br>Radio Jingles, Radio magazine, Radio Interview, Talk Show ,Discussion, Feature Documentary.<br><br>UNIT-1   | 12             | DSE 2<br>concept of corporate & organization, corporate governance, corporate and management, issues of corporate communication.<br><br>UNIT-1                                      | 5              |
| AUGUST    | CC-1<br>Contemporary debates and issues relating to media.<br>Contemporary issues of media.<br>Rights to privacy, Fake news & Paid news.<br><br>UNIT-5 | 6              | sec-1<br>Broadcast Production Techniques, Working of a Production Control Room.<br><br>studio Types and functions, acoustics, input and output chain, studio console: recording and mixing. Personnel in Production process Role and Responsibilities .<br><br>UNIT-2 | 12             | DSE 2<br>identify the stakeholder. Grunigs theory, public and stakeholder, stake holder's relationship, communication tools and strategies for stakeholder relations.<br><br>UNIT-2 | 14             |
| SEPTEMBER | CC-2<br>-Media and Everyday Life.<br>Discussions around mediated and non-  | 3              | sec-1<br>studio Types and functions, acoustics, input and output chain, studio console:   | 7              | DSE 2<br>Corporate crisis, crisis plan management   | 10             |

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|----------|--|---|--|----|---|----|
|          | mediated communication.<br><br>UNIT- 1   |   | recording and mixing. Personnel in Production process Role and Responsibilities.<br><br>UNIT-2   |    | and crisis communication.<br><br>UNIT-3   |    |
| OCTOBER  | CC-2<br><br>MEDIA impact of (Educate ,inform and entertain) of print, Radio ,and digital media).<br><br>UNIT-1 | 5 | sec-1<br><br>Stages of Radio Production Pre-Production – (Idea, research, RADIO script)<br><br>UNIT-3<br><br>Production–Creative use of Sound; Listening, Recording, using archived sounds, (execution, requisite, challenges), Sound Editing, Creative use of Sound Editing.<br><br>UNIT-3<br><b>PRACTICAL-</b> Producing Radio format mentioned in the Unit 1. (Duration-5 minutes). | 9  | DSE -2 corporate branding and brand promotion. Unit-3 Corporate social responsibility, issue and approaches,<br><br>UNIT-4        | 12 |
| NOVEMBER | CC-2<br><br>Four Models of Communication.<br><br>UNIT -5   | 8 | <b>CC-7</b><br>Public Relations – Concepts and practices Introduction to Public Relations Growth and development of PR Importance, Role and Functions of PR Principles and Tools of Public relations Organization of Public relations: In house department vs consultancy. PR in govt. and Private Sectors. Govt's Print,  | 15 | DSE -2 P3 Theory, theory of utility, profit and philanthropic approach – a debate on CSR, CSR budget, social audit.<br><br>Unit-4 | 10 |

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|----------|---|----------------|--|----------------|--|----------------|
|          |   |                | Electronic, Publicity, Film and Related Media Organizations .<br><b>Unit-3</b>   |                |  |                |
| DECEMBER | CC-2<br>Ritual or Expressive model. Publicity Model . Reception Model .<br>Culture and effects model- HUB MODEL<br><br>UNIT-5 | 5              | CC-7<br>PR –Publics and campaigns, Research for PR, Managing promotions and functions.<br>PR Campaign-planning, execution, evaluation Role of PR in Crisis management .<br>Ethical issues in PR- Apexbodies inPR- IPRA code-PRSI, PSPFand theircodes.<br><b>Unit 4</b> | 10             | DSE -2<br>CSR and media relations, CSR promotion and role of NGOs.<br><br>UNIT-4   | 9              |
|          | SEM-II (H)  | NO. OF LECTURE | SEM-IV (H)   | NO. OF LECTURE | SEM-VI (H)   | NO. OF LECTURE |
| JANUARY  | CC-3<br>Understanding media and news.<br><br>UNIT-5   | 3              | CC-9<br>Development: Concept, concerns, paradigms<br>Concept of development<br>Measurement of development<br>Development versus growth, Human development ,Development as freedom.<br>Unit -1<br>Models of development:<br>Nehruvian model .<br>Gandhian mode.         | 10             | CC 13<br>rural development & rural society, rural vs urban- sociological, demographical and cultural perspectives, rural development and agricultural development.<br>UNIT-1 | 10             |

|          |   |    |   |    |  |    |
|----------|---|----|---|----|--|----|
|          |   |    | unit-2  |    |  |    |
| FEBRUARY | <p>CC-3</p> <p>Sociology of news: factors affecting news treatment, paid news, agenda setting, pressures in the newsroom, trial by media, gate keepers.</p> <p>UNIT-5</p> | 10 | <p>CC-9</p> <p>Developing countries versus developed countries UN millennium dev goals</p> <p>Development communication: Concept and approaches Paradigms of development - Dominant paradigm, dependency, alternative paradigm</p> <p>Dev comm. approaches – diffusion of innovation, empathy, magic multiplier</p> <p>Alternative Devcomm. approaches: Sustainable Development ,Participatory Development ,Inclusive Development Gender and development support</p> <p>communication.definition, genesis, area wood striangle.</p> <p>Unit-3</p> | 10 | <p>CC-13</p> <p>participatory approaches of rural development, rural communication is an integrated communication strategy , model of rural communication, different kits/ tools of rural communication promotion/ rural communication for health, primary education and campaign of other related issues for rural development.</p> <p>UNIT-2</p> | 15 |



|       |   |   |   |    |   |    |
|-------|---|---|---|----|---|----|
| MARCH | CC-3<br>Objectivity and politics of news<br>Neutrality and bias in news.<br><br>UNIT-5                                | 4 | CC-9<br>Role of media in development<br>Mass Media as a tool for development<br>Creativity, role and performance of each media-<br>comparative study of pre and post liberalization era.<br>performance record of each medium-print, radio, tv, video, traditional media.<br><br>UNIT-4 | 7  | CC-13<br>Gandhian view of rural development, social change and rural development, decentralization of power, people's participation, PRIs, communication strategies, communication gap in PRIs.<br>UNIT-3 | 12 |
| APRIL | CC-4<br>development in Indian Press.<br><br>UNIT-5  | 3 | CC-9<br>Role of development agencies and NGOs in development communication<br>Critical appraisal of dev comm. programmes and govt. schemes: SITE, Krishi Darshan, Kheda, Jhabua, MNREGA;<br><br>Unit-5  | 12 | CC-13<br>decentralize planning to rural development and role of NGOs, non-agrarian activities and integrated rural development.<br><br>UNIT-4   | 6  |
| MAY   | CC-4<br>Radio and Television in India. Emergence of Radio in Pre-independence period. All India Radio .<br><br>UNIT-5 | 4 | cc-9<br>Cyber media and dev – e-governance, e-chaupal, national knowledge network, ICT for dev<br>Narrow casting.<br><br>Unit-5   | 15 | cc-13<br>promotion of rural industries and role of rural communication, rural cooperative and self group<br>UNIT-4  | 10 |

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|      |   |   |   |   |   |   |
|------|---|---|---|---|---|---|
| JUNE | CC-4<br>Doordarshan,,Magazine journalism, Press in emergency period, Cable TV and Satellite Television.<br><br>UNIT-5 | 6 | CC-9<br>Development support communication in India in the areas of: agriculture, health & family welfare, population, women empowerment, poverty, unemployment, energy and environment, literacy, consumer awareness, Right to Information(RTI)<br><br>UNIT-5 | 6 | CC-13<br>rural media, low cost participatory media, community media in rural development, role of traditional media in rural development, development support communication, participatory.<br><br>UNIT-5 | 7 |
|      |   |   |   |   |   |   |

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Suman Raha.

19.05.2023.

**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF MD TAUSIF AHAMED  
ENGLISH (Honours) (2020-21) (July 2020 – June 2021)**

| Month | Sem-I (B)  | No. of Lectures | Sem-III (B)   | No. of Lectures | Sem-V (B)   | No. of Lectures |
|-------|--|-----------------|---|-----------------|---|-----------------|
| Jul   | CC1: Indian Classical Literature<br>Unit 3: Kadambari          | 8               | CC5: American Literature<br>Unit 2: 'The Passionate Letter'<br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>                | 10              | CC11: Women's Writing<br>Unit 3 (a): 'A Vindication'<br>Unit 3 (b): 'A Testimony'<br>DSE2: Partition Literature<br>Unit 3 (a): 'Aunt's Own House'                       | 9               |
| Aug   | CC1: Indian Classical Literature<br>Unit 3: Kadambari          | 8               | CC5: American Literature<br>Unit 2: 'The Crack-up'<br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>                         | 10              | CC11: Women's Writing<br>Unit 3 (a): 'A Vindication'<br>Unit 3 (b): 'A Testimony'<br>DSE2: Partition Literature<br>Unit 3 (b): 'Final Solution'                         | 9               |
| Sept  | CC1: Indian Classical Literature<br>Unit 3: Kadambari          | 8               | CC5: American Literature<br>Unit 2: 'Dry September'<br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>                        | 9               | CC11: Women's Writing<br>Unit 3 (a): 'Aunt's Own House'<br>DSE1: Modern Indian Writing<br>Unit 3: Gora<br>DSE2: Partition Literature<br>Unit 3 (a): 'Taha Tah Sing'     | 11              |
| Oct   | CC2: European Classical Literature<br>Unit 1: <i>The Idiot</i> | 8               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i>  | 10              | CC11: Women's Writing<br>Unit 3 (a): 'Aunt's Own House'<br>DSE1: Modern Indian Writing<br>Unit 3: Gora<br>DSE2: Partition Literature<br>Unit 3 (a): 'Lost in the Steam' | 10              |
| Nov   | CC2: European Classical Literature<br>Unit 1: <i>The Idiot</i> | 8               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i>  | 10              | CC12: British Literature<br>Unit 3 (a): 'Lads and the Steam' & 'The Second Coming'<br>Unit 3 (b): 'Proback' & 'The Hollow Men'  | 9               |
| Dec   | CC2: European Classical Literature<br>Unit 1: <i>The Idiot</i> | 8               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i><br>DSE1: Creative Writing<br>Unit 3: 'Modes of Creative Writing' | 9               | CC12: British Literature<br>Unit 3 (a): 'Lads and the Steam' & 'The Second Coming'<br>Unit 3 (b): 'Proback' & 'The Hollow Men'  | 9               |

|      | Sem-II (B)  |   | Sem-IV (B)  |         | Sem-VI (B)  |          |
|------|---|---|---|---------|---|----------|
| Jan  | CC1: Indian Writing in English<br>Unit 4: 'Brandy Fought the Queen' | 8 | CC8: British Literature<br>Unit 2 (a): 'Elegy Written in a Country Churchyard'<br>Unit 2 (b): 'Ode to Evening'  | 8<br>8  | DSE3: Literary Theory<br>Unit 1: 'Marxism'<br>DSE3: Literary Theory<br>Unit 3: 'Foucault'                       | 10<br>10 |
| Feb  | CC3: Indian Writing in English<br>Unit 4: 'Brandy Fought the Queen' | 8 | CC8: British Literature<br>Unit 2 (a): 'Elegy Written in a Country Churchyard'<br>CC10: British Literature<br>Unit 1: 'Hard Times'                      | 8<br>10 | DSE3: Literary Theory<br>Unit 1: 'Marxism'<br>DSE3: Literary Theory<br>Unit 4: 'Postcolonial Studies'           | 9<br>9   |
| Mar  | CC1: Indian Writing in English<br>Unit 4: 'Brandy Fought the Queen' | 8 | CC9: British Romantic Literature<br>Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'   | 8       | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'<br>DSE3: Literary Theory<br>Unit 4: 'Postcolonial Studies' | 9<br>8   |
| Apr  | CC8: British Poetry, Drama & Prose and Prose<br>Unit 2: 'Macbeth'   | 8 | CC9: British Romantic Literature<br>Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'<br>SEC2: Film Studies<br>Unit 1: 'Foucault of the Cinema' | 8<br>8  | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'<br>DSE3: Literary Theory<br>Unit 4: 'Postcolonial Studies' | 8<br>8   |
| May  | CC8: British Poetry, Drama & Prose and Prose<br>Unit 2: 'Macbeth'   | 8 | CC10: British Literature<br>Unit 1: 'Hard Times'  | 10      | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'  | 8        |
| June | CC8: British Poetry, Drama & Prose and Prose<br>Unit 2: 'Macbeth'   | 8 | CC10: British Literature<br>Unit 1: 'Hard Times'  | 10      | DSE3: Literary Theory<br>Unit 3: 'Foucault'   | 11       |

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**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF MID TAUSIF AHAMED**

ENGLISH (Honours) (2021-22) (July 2021 - June 2022)

| Month | Sem-I (H)  | No. of Lectures | Sem-III (H)   | No. of Lectures | Sem-V (H)   | No. of Lectures |
|-------|--|-----------------|---|-----------------|---|-----------------|
| Jul   | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 4               | CC8: American Literature<br>Unit 1: <i>The Adventures of Tom Sawyer</i><br><br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>    | 8               | CC11: British Literature<br>Unit 2: <i>Lord Ruck in Anger</i><br><br>DSE2: Puritan Literature<br>Unit 4: <i>Ice Candy Man</i>                           | 8               |
| Aug   | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 4               | CC8: American Literature<br>Unit 3: <i>The Adventures of Tom Sawyer</i><br><br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>    | 8               | CC11: British Literature<br>Unit 2: <i>Lord Ruck in Anger</i><br><br>Unit 4: <i>Ice Candy Man</i>   | 8               |
| Sept  | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 4               | CC8: American Literature<br>Unit 3: <i>The Adventures of Tom Sawyer</i><br><br>CC7: British Poetry and Drama<br>Unit 1: <i>Paradise Lost</i>    | 8               | CC11: British Literature<br>Unit 2: <i>Lord Ruck in Anger</i><br><br>DSE1: Modern Indian Writing<br>Unit 3: <i>Gora</i><br>Unit 4: <i>Ice Candy Man</i> | 11              |
| Oct   | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 4               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i>  | 10              | DSE2: Modern Indian Writing<br>Unit 3: <i>Gora</i><br>Unit 4: <i>Ice Candy Man</i>  | 8               |
| Nov   | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 4               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i>  | 10              | CC12: British Literature<br>Unit 1 (a): 'Lads and the Swain' & 'The Second Coming'<br><br>Unit 1 (b): 'Purdick' & 'The Yellow Man'                      | 8               |
| Dec   | CC1: Indian Classical Literature<br>Unit 3: <i>Ahalya</i><br><i>Shakuntala</i> | 2               | CC6: Popular Literature<br>Unit 1: <i>Alice's Adventures in Wonderland</i><br><br>SECS: Creative Writing<br>Unit 3: 'Modes of Creative Writing' | 4               | CC12: British Literature<br>Unit 1 (a): 'Lads and the Swain' & 'The Second Coming'<br><br>Unit 1 (b): 'Purdick' & 'The Yellow Man'                      | 8               |

|      | Sem-III (H)  |   | Sem-IV (H)   |              | Sem-VI (H)  |         |
|------|--|---|--|--------------|---|---------|
| Jan  | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 4 | CC8: British Literature<br>Unit 2 (a): 'Elegy Written in a Country Churchyard'<br>Unit 2 (b): 'Ode to Evening'   | 4<br>8       | CC16: Postcolonial Literatures<br>Unit 1: Things Fall Apart   | 8       |
| Feb  | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 4 | CC8: British Literature<br>Unit 2 (a): 'Elegy Written in a Country Churchyard'<br>CC8: British Literature<br>Unit 4: Return of the Native              | 4<br>16<br>8 | DSE3: Literary Theory<br>Unit 1: 'Marxism'<br>CC16: Postcolonial Literatures<br>Unit 1: Things Fall Apart | 16<br>8 |
| Mar  | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 4 | CC8: British Romantic Literature<br>Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'  | 8            | DSE3: Literary Theory<br>Unit 1: 'Marxism'  | 8       |
| Apr  | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 4 | CC8: British Romantic Literature<br>Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'<br>SEC1: Film Studies<br>Unit 1: Evolution of the Camera | 8<br>8       | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'  | 8       |
| May  | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 4 | CC8: British Literature<br>Unit 4: Return of the Native  | 7            | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'  | 8       |
| June | CC4: British Poetry, Drama & Rhetoric and Prose<br>Unit 2: Macbeth | 3 | CC8: British Literature<br>Unit 4: Return of the Native  | 8            | DSE3: Literary Theory<br>Unit 2: 'Poststructuralism'  | 8       |

Ms. Tawir  
Head of the Department,  
Department of English,  
Sri Vidyanagar College

02/07/2021

Department of English,  
Sri Vidyanagar College

**TEACHING PLAN- 2020-21 ( ODD SEMISTERS)**

**Semester - I**

**History Honours**

**Paper – CC- I (Core Course)**

**Name of the Teacher- Dr. Amiya Ghosh**

**HISTORY OF INDIA- I (From Earliest times to 600 AD)**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Sept., 2020**

I. Reconstructing Ancient Indian History

Early Indian notions of History – Sources and tools of historical reconstruction – Historical interpretations with special reference to gender, environment, technology, and regions.

**Oct., 2020**

II. Phases of Pre-historic Cultures

Paleolithic, Mesolithic & Neolithic cultures- regional and chronological distribution; new developments in technology and economy; subsistence, and patterns of exchange; Mehrgarh - The advent of food production

**Nov., 2020**

III. The Harappan civilization

Origins; Antiquity and Extent settlement patterns and town planning; agrarian base; craft productions and trade; social and political organization; religious beliefs and practices; art; the problem of urban decline and the late/post-Harappan traditions.

Development of Neolithic and Chalcolithic cultures in post Harappan period.

IV. Cultures in transition

Coming of the Aryans and Aryan Debate, Vedic Literature, expansion of Brahmavarta to Aryavarta, Vedic religion and philosophy; Vedic economy and society.

Religious protest movements;

Second Urbanisation, Sixteen Mahajanpadas to the rise of Magadha.

**Dec., 2020**

V. Changing political formations (circa 300 BCE to circa CE 300):

The Mauryan Empire & politics- Asoka and the Fall of the Mauryas

Post-Mauryan Polities with special reference to the Kushanas and the Satavahanas; Gana-Sanghas.

Rise of the Guptas, development of Gupta Empire, Gupta Art, Architecture and Literature

VI. Society Economy and Culture in Early India

Agrarian expansion: land grants, changing production relations; graded Land rights and peasantry.

Urban growth: north India, central India and the Deccan; craft production: trade and trade routes; coinage

Social stratification: class, varna, jati, untouchability; gender; marriage and property relations The problem of urban decline: patterns of trade, currency, and urban Settlements.

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**Semester - I**  
**History Honours**  
**Paper – CC- II (Core Course)**

**Name of the Teacher- Dr. P.S. Mazumdar**

SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Sept., 2020**

I. Evolution of human Society & Food production : Beginnings of agriculture and animal husbandry

**Oct., 2020**

II. Bronze Age Civilizations in general with reference to Mesopotamia (upto the Akkadian Empire)-  
economy, social stratification, state structure and religion

**Nov., 2020**

III. Nomadic groups in Central and West Asia: Debate on the advent of iron and its implications

IV. Polis in ancient Greece: origin, features, nature and class composition; Sparta and Athens;  
decline of the Polis

**Dec., 2020**

V. Peloponnesian War: Origin; Resources of belligerents; Course of war; Melos, Mytilene, Periclean  
strategy; Sicilian expedition

VI. Greek Culture and Religion: Sophists, Socrates, Games, Drama, Art and Architecture, Greek Gods.



History General  
Paper – CC-I A / GE- I (Core Courses)  
History of India –I (From Earliest Times up to 300 CE)  
**Name of the Teacher- Prof Nivedita .Chakravorty**  
6 Credits, Total Marks 75 (60+15) Total –60 Lectures

**Sept., 2020**

I. Sources; Prehistory and Proto-historic cultures

Sources & Interpretation - A broad survey of Palaeolithic, Mesolithic And Neolithic Cultures, Bronze age civilization - Harappan Civilization - Origin, Extent, dominant features& decline.

**Oct., 2020**

II. The Vedic Period

Polity, Society, Economy and Religion, Iron age with reference to PGW & Megaliths.

**Nov., 2020**

III. Jainism and Buddhism

Causes, Doctrines, Spread, Decline and Contributions

IV. Rise of Magadha

Emergence and growth of the Magadhan Empire

Conditions for the rise of Mahajanpadas and the Causes of Magadha's success;

The Iranian and Macedonian Invasion

**Dec., 2020**

V. The Mauryan Empire

State and Administration of the Mauryas, Economy, Ashoka's Dhamma, Art & Architecture.

VI. Post Mauryan Period The Satvahana Phase: Aspects of Political History, Material Culture, and Administration & Religion

The Sangam Age: Samgam Literature, The three Early Kingdoms, Society & the Tamil language

The age of Sakas and Kushanas: Parthians & Kushanas, Aspects of Polity, Society, Religion, Arts & Crafts, Coins, Commerce and Towns.

**TEACHING PLAN- 2021-22**

**Semester - III**

**History Honours**

**Paper – CC- V (Core Course)**

**Name of the Teacher- Dr. Partha Sanka Mazumdar**

**HISTORY OF INDIA IV (circa 1206 CE–circa 1525 CE)**

**6 credits, Total 75 marks (60 + 15) Total –60 Lectures**

**Sept., 2020**

I. Sources for studying/Interpreting the Delhi Sultanate

Survey of sources: Persian tarikh tradition; vernacular histories; epigraphy

**Oct., 2020**

II. Sultanate Political Structures Foundation, expansion and consolidation of the Sultanate of Delhi; The Khaljis and the Tughluqs; Mongol threat and Timur's invasion; The Lodis: Conquest of Bahlul and Sikandar; Ibrahim Lodi and the battle of Panipat Theories of kingship; Ruling elites; Sufis, ulama and the political authority; imperial monuments and coinage

**Nov., 2020**

III. Regional Political structures Emergence of provincial dynasties: Bahamanis, Vijayanagar and Bengal Consolidation of regional identities; regional art, architecture and literature

IV. Sultanate Society and Economy-1 Iqta and the revenue-free grants Agricultural production;

**Dec., 2020**

V. Sultanate Society and Economy-2 Changes in rural society; revenue systems Monetization; market regulations; growth of urban centers; trade and commerce; Indian Ocean trade

VI. Religion and Culture Sufi silsilas: Chishtis and Suhrawardis; doctrines and practices; social roles Bhakti movements and monotheistic traditions in South and North India; Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition

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**Semester - III**  
**History Honours**

**Paper – CC- VI (Core Course)**

**Name of the Teacher- Dr. Amiya Ghosh**

**RISE OF THE MODERN WEST – I (15th& 16th centuries)**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Sept., 2020**

I. Transition from feudalism to capitalism: problems and theories.

**Oct., 2020**

II. Early colonial expansion: motives, voyages and explorations; the conquests of the Americas: beginning of the era of colonization; mining and plantation; the African slaves.

**Nov., 2020**

III. Renaissance: its social roots, city-states of Italy; spread of humanism in Europe; Art.

IV. Origins, course and results of the European Reformation in the 16th century.

**Dec., 2020**

V. Economic developments of the sixteenth century: Shift of economic balance from the Mediterranean to the Atlantic; Commercial Revolution; Influx of American silver and the Price Revolution.

VI. Emergence of European state system: Spain; France; England

**Semester - III**  
**History Honours**

**Paper – CC- VII (Core Course)**

**Name of the Teacher- Dr. Asim Chaudhuri**

**HISTORY OF INDIA (1526 – 1757 CE)**

**6 credits, Total 75 marks (60 + 15) Total – 36 Lectures**

**Sept., 2020**

I. Sources and Historiography

Persian literary culture; translations Literature in regional languages.

**Oct., 2020**

II. Establishment of Mughal rule

Babur's invasion of India - Struggle for Empire in North India –significance of Babar and Humayun's reign - Significance of Afghan despotism and rise of Sher Shah to power, His administrative and revenue reforms

**Nov., 2020**

III. Akbar &Consolodation of Mughal Empire

Akbar's Conquests - his Rajput Policy & administrative and religious reforms, Reign of Jahangir, Nurjahan- her role in imperial politics; The Mughals and the North Western frontier and central Asia.Making of a new imperial system and administration, the Mughal nobility, Mansab and Jagir.

IV. Mughal Empire under Aurangazeb

State and religion under Aurangzeb; issues in the war of success ion; policies regarding Religious groups and Institutions -Conquests and limits of expansion - Beginning of the crisis: contemporary perceptions; agrarian and Jagir crises; revolts. Inland and ocean trade network.

Dec., 2020

V. Mughal Art, Architecture & Painting

VI. Patterns of Regional Politics Rajput political culture and state formation -Rise of Maratha power under Shivaji, & expansion under the Peshwas - emergence of regional powers – case studies of Maharashtra, Awadh and Bengal; Bengal Nawabs and the rise of the English East India Company in Bengal. Debate of the 18th Century on the decline of the Mughal Empire.

### Semester - III

#### History Honours

Paper – SEC- I (Skill Enhancement Courses)

**Name of the Teacher-** Prof. Nivedita Chakraborty  
Archives and Museums in India

2 Credits, Total marks – 50 Total – 40 Lectures

*This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Museums and archives are among the most important such repositories and this course explains their significance and how they work. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges. Visit to National Archives and National Museum are an integral part of the course.*

Sept., 2020

I. Definition and history of development (with special reference to India)

Oct., 2020

II. Types of archives and museums: Understanding the traditions of preservation in India  
Collection policies, ethics and procedures  
Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others

Nov., 2020

Documentation: accessioning, indexing, cataloguing, digital documentation and de-accessioning  
Preservation: curatorial care, preventive conservation, chemical preservation and restoration

III. Museum Presentation and Exhibition

Dec., 2020

IV. Museums, Archives and Society: Education and communication Outreach activities

### Semester - III

#### History General

**Name of the Teacher - Dr. Asim Chaudhuri**

Paper – CC- IC / GE- III (Core Course)

HISTORY OF INDIA –III (FROM 1206-1707 AD)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Sept., 2020

I. Political History of the Delhi Sultanate Foundation, Expansion and Consolidation of the Delhi Sultanate—Ilbari Turks, Khaljis and the Tughlaqs Nature of the State, nobility and the Ulema, Economic reforms

Oct., 2020

II. Regional Political Formations Bengal Vijaynagar and the Bahamani Kingdoms

III. Mughal ascendancy till the time of Akbar (1605 CE)

Nov., 2020

Babar; Mughal- Afgan conflict, Akbar

IV. Mughal Power in the post Akbar Era (1606-1707 CE) Mughal empire from Jahangir to Aurangzeb

Dec., 2020

V. Economy and Society Revenue administration from iqta, jagir and mansabdari. Inland and oceanic trade

VI. Religion, Art and Architecture Religion;-Sufism, and Bhakti movement Art---painting, sculpture and architecture Literature—Persian and regional

### Semester - III

#### History General

Name of the Teacher – Prof. Nivedita Chakraborty

Paper – SEC- I (Skill Enhancement Courses)

Archives and Museums in India

2 Credits, Total marks – 50 Total – 40 Lectures

*This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Museums and archives are among the most important such repositories and this course explains their significance and how they work. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges. Visit to National Archives and National Museum are an integral part of the course.*

Sept., 2020

I. Definition and history of development (with special reference to India)

II. Types of archives and museums: Understanding the traditions of preservation in India

Oct., 2020

Collection policies, ethics and procedures Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others

Documentation: accessioning, indexing, cataloguing, digital documentation and de-accessioning

Preservation: curatorial care, preventive conservation, chemical preservation and restoration

Nov., 2020

III. Museum Presentation and Exhibition

Dec., 2020

IV. Museums, Archives and Society: Education and communication Outreach activities

**Semester – V**  
**History Honours Paper – CC- XI (Core Course)**  
**HISTORY OF MODERN EUROPE- II (1789-1870)**  
**Name of the Teacher- Dr. Asim Chaudhuri**  
**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**August, 2020**

I. The French Revolution and its European repercussions

Crisis of Ancien regime --- Political, social, economic and intellectual background (role of Philosophers) of the French Revolution , The revolution in the making – the Aristocratic Revolt and the consolidation of the Third Estate. The Constituent Assembly; Radicalization of the Revolution; the reign of Terror and the Thermidorian reaction; social base of the Revolution- Sans culottes, peasants and women; the directory and its achievements and failures.

**Sept. 2020**

II. Napoleon Bonaparte and the French Revolution Rise of Napoleon; Napoleonic reforms, Napoleonic Empire and Europe Fall of Napoleon: The Continental System; The Spanish Ulcer; The Moscow campaign. Assessment of Napoleon: Character of the French Revolution; Impact of French Revolution on Europe and abroad.

**Oct., 2020**

III. Restoration and Revolution (1815-1848) Vienna Congress; Concert of Europe; Metternich system Greek War of Independence, Revolution of 1830 & 1848, & their Impact

**Nov., 2020**

IV. Industrialization and socio economic transformation Industrial Revolution; Definition and characteristics; Pre Industrial society; Industrial Revolution in Britain; Impact on society, economy and politics. Industrialization in the continents, case study of France, Germany and Russia. Emergence of working class and its movements; early Utopian socialist thoughts.

**Dec., 2020**

V. Age of Nationalism Unification of Italy and Germany nSpecificities of economic development, political and administrative re organization – Italy and Germany The second Empire in France and Louis Napoleon

VI. The Eastern Question

The Crimean War; Treaty of Paris, Balkan Nationalism

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**Sem- V**  
**History Honours Paper – CC- XII (Core Course)**  
**STUDYING HISTORY WRITING: INDIAN & WESTERN**  
**Name of the Teacher – Dr. Amiya Ghosh**  
**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**August 2020**

I. Time, Space & Human Agency Notion of Time and Space in History

**Sept. 2020**

II. Importance of sources in History

Written, Oral, Visual and Archaeological Sources - Classification of Primary and Secondary sources – Source criticism and authentication

**Oct., 2020**

III. Philosophy and Theory of History Facts and Interpretation - Philosophy of History – Hypothesis, argumentation and Problematique - Objectivity/Subjectivity in History – Historical Narrative and Generalization

**Nov., 2020**

IV. Indian & Western Historiography Pre-colonial forms of writing Indian History - Different schools of Indian historiography (Cambridge, Nationalists, Marxists, Subaltern) - Different schools of Western historiography (Rationalist, Romantist, Positivist, Marxist and Annales)

**Dec., 2020**

V. History and other disciplines bRelationship between History and Science - History and Anthropology - History and Literature etc.

VI. Research Process in History Different stages and steps involved in the process of doing research in History

**Sem – V**

**History Honours**

**Paper – DSE- I (Discipline Specific Elective)**

**LIFE AND CULTURE IN PRE-COLONIAL BENGAL: Prehistoric times to mid 18th century.**

**Name of the Teacher - Dr. Partha Sankha Mazumdar**

**6 Credits, Total 75 marks (60 + 15) Total Lectures – 60**

**August, 2020**

I. The land environs and places

Historical Geography- ancient and medieval divisions

**Sept., 2020**

II People and Society

Demography and ethnology – earliest inhabitants; Aryanization of Bengal; Rise of different castes and communities of Bengal; Life of the people-position of women, dress, foods, games and leisure, conveyance

**Oct., 20210**

III. Political development of Bengal-an overview

Bengal up to Gupta period; Rise of sovereign Bengal; The Muslim invasion and rise of Islam in Bengal up to the rule of the Nawabs

**Nov., 2020**

IV. Economic life in Bengal Agriculture, crafts and industries; Trade and commerce; Rise of Calcutta and Murshidabad; Emergence of Zamindari system.

V. Religions and art in Bengal Spread of Brahmanism and Brahmanic culture; Vaisnavism; Spread of Buddhism and Jainism; Islam and Bengal; Srichaitanya and Bhakti movement, Sufism; Architecture, sculpture and other forms of art; monastic and temple architecture with reference to Paharpur, Bishnupur; terracotta art

**Dec., 2020**

VI. Literature and traits of regional culture

a) Pre Bengali Sanskrit literature- kavyas, Jaydeb, UmapatiDhar, Dhoyi

b) The rise and development of Bengali language and literature- Charyapada; Kirtivasa and Kasiram Das, the Mangalkavyas, c) Origin of Folk traditions of Bengal

**Sem- V**  
**Paper – DSE- II (Discipline Specific Elective), Honours**  
**LIFE AND CULTURE IN COLONIAL BENGAL (1757-1947)**  
**Name of the Teacher -Prof. Nivedita Chakraborty**  
**6 Credits, Total 75 marks (60 + 15) Total Lectures – 60**

**August, 2020**

1. Establishment of East India Company's rule in Bengal
  - a) Relation between the East India Company and Bengal Nawabs- especially Sirajudaullah.
  - b) Battle of Plassy to grant of Diwani, Dual Government, Famine of 1770
  - c) Experiments in Revenue Administration and Establishment Permanent Settlement-Social and Economic impact of the Permanent Settlement.

**Sept. 2020**

2. Changes in Social and Economic life up to 19th Century
  - a) The Village community, so called self sufficient Village breaking the said society; Introduction of money index in place of cast system in social status.
  - b) Rise and growth of Calcutta and decline of the old urban centers.
  - c) Popular protests in the 19th Century- Sannyasi, Wababi, Faraiji, Indigo Revolts & Pabna uprising.

**Oct., 2020**

3. Impact of company's Rule
  - a) Western Education- Role of Missionaries; Women's Education- Medical Education –Emergence of educated middle class. b) The Bengal Renaissance –Religious and social Reforms Movements- Rammohan Roy, Vidyasagar, Young Bengal, Brahma Samaj, Bankim Chandra Chattopadhyay, Vivekananda; The Muslim and Non- Bengalis in Bengal. c) De-industrialization and emergence of Labour Force; Impact of Railways.

**Nov., 2020**

4. Cultural Scenario in 19th Century
  - a) Bengali Language and Literature; Printing and Press b) Visual & performing arts, painting, Music , Theatre
  - c) Popular religions – ( Sahebhdhani, Kartabhaja, Lalansahi, ), Culture- (Yatra, Kabigan)
  - d) Science, Technology and Medicine
5. Emergence of Nationalism
  - a) Swadeshi Movement and impact, b) Rise of Extremism; Foundation of Muslim League;
  - c) Gandhian ideology in Bengal,
  - d) Non-co operation, Civil Disobediences and Quit India Movement in Bengal.

**Dec., 2020**

6. Changes in the 20th Century
  - a) Influence of Nationalism on Literature;Introduction of popular Utsab and Melas
  - b) Evolution Theatres in the 20th Century
  - c) Visions of integration and humanity – Rabindranath, KaziNazrul and Sarat Chandra Chattopadhyay
  - d) Social and cultural impact of the Partition; changing role of Women in Society.



**Semester – V**  
**History General**  
**Paper – DSE- IA (Discipline Specific Elective)**  
**SOME ASPECTS OF SOCIETY & ECONOMY OF MODERN EUROPE: 15-18 CENTURY**  
**Name of the Teacher - Dr. Partha Sankha Mazumdar**  
**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**August., 2020**

1. Political and Economic Structure of the Feudal Era
  - a. Origins of Feudalism
  - b. Nature of Feudal Society; Regional Variation
  - c. Crisis in Feudalism ; Transition debate

**Sept., 2020**

2. Renaissance & the Rise of Modern Europe
  - a. Origins; Reason
  - b. Renaissance humanism; rediscovery of Classics
  - c. Italian Renaissance and its Impact

**Oct., 2020**

3. European Reformation
  - a. Background, nature and impact
  - b. Martin Luther & Protestant Reformation
  - c. Reformation Movements and European States

**Nov., 2020**

4. European Economy in the 16th Century
  - a. Economic expansion of Europe in the 16th Century
  - b. The rise of new marchants
  - c. Price revolution & Agriculture Revolution

**Dec., 2020**

5. Science & Technology
  - a. Origins of the Modern science
  - b. Scientific Revolution
  - c. Origins of Enlightenmen
6. Transition from Feudalism to Capitalism
  - a. Transition to Capitalism and its debates.
  - b. Nature of the Capitalism
  - c. Industrial Revolution in England.

**History General , Sem-V**  
**Paper – GE I (Generic Elective Paper)**  
**Women Studies in India**  
**Name of the Teacher –Dr. Asim Chaudhuri**  
**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**August. 2020**

I. Basic Concepts & Theories

- a. Defining Gender
- b. Patriarchy: Ideology and Practice
- c. Relationship between Gender, Caste, Class Religion & Politics

**Sept., 2020**

II. Emergence of Women Studies in India

- a. A Survey from the 1980s
- b. Women Studies: Regional Centres; the Core-Periphery discourse
- c. Academic connect with Activism

**Oct., 2020**

III. Gender & Social History

- a. Family & Marriage
- b. Women's question in the 19th century
- c. Women's movement in Colonial & Post-Colonial India

**Nov., 2020**

IV. Gender, Law & Politics

- a. Political Participation
- b. Violence against Women – Preventive laws

**Dec., 2020**

V. Gender & Development

- a. Issues of Labour & Health
- b. Access to resources
- c. Gender Audit

VI. Gender & Culture

- a. Cultural Practices and Gender
- b. Interrogating Gender through the lens of culture
- c. Regional Cultures and Gender in India

**Sem – V**  
**History General**  
**Paper – SEC III (Skill Enhancement Course)**  
**An Introduction to Archaeology**  
**Name of the Teacher - Dr. Amiya Kumar Ghosh**  
**2 Credits, Total marks – 50 Total – 40 Lectures**

**August, 2020**

I. Definition & Components

**Sept., 2020**

II. Historiographical Trends

**Oct., 2020**

III. Research Methodologies

**Nov., 2020**

IV. Definition of Historical Sites & Explorations

**Dec., 2020**

V. Field Work & Tools of research

VI. Documentation, Codification, Classification, Analysis of findings and publications

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ODD SEM 2020-21

**TEACHING PLAN (HONS. & GENL.) OF FACULTY MEMBERS OF DEPARTMENT OF PHYSIOLOGY FOR SESSIONS 2020-2021**

**DEPARTMENT OF PHYSIOLOGY**

**TEACHING PLAN**

**DR. AMAL KUMAR PARI**

**Physiology (Honours) (July 2020 – June 2021)**

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)  | No. of Lecture |   |
|-------|---|----------------|--|----------------|--|----------------|---|
| Jul   | <p><b>Theory:</b><br/> <b>CC2:</b><br/>                     A Study of Units for Measuring Concentration of Solute: Moles, Equivalent, Osmoles</p> <p><b>Principles of Dilution, pH, Buffers</b><br/>                     Proteolysis of water, pH, acid-base neutralization curves</p> <p><b>Bonds and Forces in Biomolecules</b></p> <p><b>Colloids, Properties, importance</b><br/>                     Colloids: Classification, properties—optical, electrical, electro kinetic. Biological importance of colloids</p> <p><b>Practical:</b></p> <p><b>CC2:</b><br/>                     Determination of Oncotic Solution<br/>                     Colloidal solutions</p> | 8              | <p><b>Theory</b><br/> <b>CC6:</b><br/> <b>Origin of the Heartbeat &amp; the Electrical Activity of the heart</b></p> <p>Introduction</p> <p>Origin &amp; Spread Of Cardiac Excitation</p> <p>Cardiac action potential. Origin and propagation of cardiac impulse.<br/>                     The Electrocardiogram</p> <p>Electrocardiography –the normal electrocardiogram, electrocardiographic leads, vectorial analysis, the vectorcardiogram, the mean electrical axis of heart. The His bundle electrogram.<br/>                     Cardiac Arrhythmias</p> <p>Cardiac Arrhythmias – Normal cardiac rate. Myocardial Infarctions. Cardioplegic solutions.<br/>                     Electrocardiographic Findings in Other Cardiac &amp; Systemic Diseases, hypertrophy and cardiac myopathy</p> <p><b>Practical</b><br/> <b>CC7:</b><br/>                     Experiments on superficial (plantar) and deep (knee jerk) reflex<br/>                     Measurement of grip strength</p> <p><b>Theory SEC1A: Detection of food additives/ adulterants</b><br/> <b>Qualitative tests for Food Adulteration</b><br/>                     Qualitative test for identifying Food Adulterants in some food samples: Metanil yellow, Rhodamin B, Saccharin.</p> | 8              | <p><b>Theory</b><br/> <b>CC11:</b></p> <p>Introduction<br/>                     Anatomic Considerations<br/>                     The Image-Forming Mechanism (accommodation and visual acuity)<br/>                     The Photoreceptor Mechanism: Genesis of Electrical Responses<br/>                     Visual Pathways and effects of lesions of these pathways</p> <p><b>Practical:</b></p> <p>Measurement of blood pressure before and after different grades of exercise.</p> <p>Recording of recovery heart-rate after standard exercise.</p> | 8              | 4 |
|       |   | 2              |  | 4              |  |                |   |
|       |   |                |  | 3              |  |                |   |

|                    |  |   |   |                                 |
|--------------------|--|---|---|---------------------------------|
| <p><b>Aug</b></p>  | <p><b>Theory:</b><br/> <b>CC2: Surface tension, Specific Gravity</b><br/>           Surface tension and Specific Gravity: characteristics, factors influencing and biological applications<br/> <b>Viscosity and Resistance</b><br/>           Viscosity and Resistance characteristics, factors influencing and biological applications<br/> <b>Acids, Bases, Buffers and pH</b><br/>           Buffer action: Henderson-Hasselbalch equation. Regulation of pH by blood buffers. Determination of pH– Basic concept of indicators, principle of pH meter- hydrogen electrode and glass electrode<br/> <b>Flow and Pressure</b><br/>           Diffusion and Osmosis: osmotic pressure– laws.<br/><br/> <b>Practical:</b><br/> <b>CC2:</b><br/>           Determination of enzyme activities (eg. SOD, CAT)</p> | <p><b>8</b></p> <p><b>Theory</b><br/> <b>CC6:</b><br/> <b>The Heart as a Pump</b></p> <p>Introduction</p> <p>Anatomy of the heart. Properties of cardiac muscle. Cardiac Innervation. Stannius ligature.<br/>           Mechanical Events of the Cardiac Cycle</p> <p>The cardiac cycle- pressure and volume changes. Heart sounds. Murmurs.<br/>           Cardiac Output</p> <p>Cardiac output– measurement by application of Fick’s principle and dye dilution method, factors affecting. Starling’s law of heart.<br/> <b>Dynamics of Blood &amp; Lymph Flow</b><br/>           Introduction<br/>           Anatomic Considerations</p> <p><b>4</b></p> <p>Functional morphology of arteries, arterioles, capillaries, venules and veins, sinusoids. General pattern of circulation and significance of branching of blood vessels.<br/>           Biophysical Considerations<br/>           Hemodynamics of blood flow.<br/>           Arterial &amp; Arteriolar Circulation<br/>           Capillary Circulation<br/>           Lymphatic Circulation &amp; Interstitial Fluid Volume<br/>           Venous Circulation</p> <p><b>Practical</b><br/> <b>CC7:</b><br/>           Reaction time by stick drop test</p> <p>Short term memory test (shape, picture word)</p> <p><b>Theory SEC1A:</b> Qualitative test for identifying Food Adulterants in some food samples: Monosodium glutamate, Aluminium foil, Chicory.</p> | <p><b>9</b></p> <p><b>Theory</b><br/> <b>DSE2B:</b><br/>           Color Vision<br/>           Other Aspects of Visual Function<br/>           Eye Movements<br/>           Errors in visual process</p> <p><b>Practical:</b><br/> <b>DSE2B:</b><br/>           Determination of Physical Fitness Index by Harvard Step Test (Modified).<br/><br/>           Determination of VO<sub>2</sub>max by Queen College step test.</p> <p><b>4</b></p> <p><b>4</b></p> <p><b>3</b></p>   | <p><b>8</b></p> <p><b>4</b></p> |
| <p><b>Sept</b></p> | <p><b>Theory:</b><br/> <b>CC2:</b><br/> <b>Dialysis and Ultracentrifugation</b><br/> <b>Chromatography</b><br/> <b>Electrophoresis</b><br/> <b>Autoradiography</b><br/> <b>Cell Fractionation and Tracer Techniques</b><br/> <b>Nanoparticles and its application in Physiology</b></p> <p><b>Practical:</b><br/> <b>CC2:</b><br/>           Practice<br/>           Determination of Oncotic Solution<br/>           Colloidal solutions</p>  | <p><b>8</b></p> <p><b>Theory</b><br/> <b>CC6:</b><br/> <b>Cardiovascular regulatory Mechanisms</b></p> <p>Introduction<br/>           Local Regulatory Mechanisms<br/>           Cardiac and vasomotor centers, baroreceptors and chemoreceptors, cardiac and vasomotor reflexes.<br/>           Substances Secreted by the Endothelium<br/>           Systemic Regulation by Hormones<br/>           Systemic Regulation by the Nervous System</p> <p><b>2</b></p> <p>Cardiovascular homeostasis–neural and chemical control of cardiac functions and blood vessels.<br/> <b>Circulation Through special Regions</b><br/>           Introduction<br/>           Cerebral Circulation<br/>           Anatomic Considerations<br/>           Cerebrospinal Fluid<br/>           The Blood-Brain barrier<br/>           Cerebral Blood Flow<br/>           Regulation of Cerebral Circulation<br/>           Brain Metabolism &amp; Oxygen Requirements</p> <p><b>Practical</b><br/> <b>CC7:</b><br/>           Two point discrimination test<br/> <b>Theory SEC1A:</b><br/>           Qualitative test for identifying</p>   | <p><b>8</b></p> <p><b>Theory</b><br/> <b>DSE2B:</b><br/>           Importance of regular exercise in health and wellbeing.<br/><br/>           Basic concept of Bioenergetics, Energy sources during exercise (Phosphagen, Anaerobic system and Aerobic system).<br/><br/>           Cardio-respiratory responses during different grades of exercise.</p> <p><b>Practical:</b><br/> <b>DSE2B:</b><br/>           Measurement of body fat percentage.<br/><br/>           Six minute walk test.</p> <p><b>4</b></p> <p><b>2</b></p> <p><b>3</b></p> | <p><b>8</b></p> <p><b>4</b></p> |

|            |  |                   |  |                            |   |                   |
|------------|--|-------------------|--|----------------------------|---|-------------------|
|            |  |                   | FoodAdulterants in some food samples: Bisphenol A and Bisphenol S, Chocolate Brown HT, Margarine   |                            |   |                   |
| <b>Oct</b> | <p><b>Theory:</b><br/><b>CC2:</b><br/><b>Laminar and Streamline Flow</b><br/><b>Poiseuille- Hagen Formula</b><br/><b>Laws of Laplace</b></p> <p><b>Practical:</b><br/><b>CC2:</b><br/>Practice<br/>Determination of enzyme activities (SOD).</p> | <p>6</p> <p>2</p> | <p><b>Theory</b><br/><b>CC6:</b><br/>Coronary Circulation<br/>Splanchnic Circulation<br/>Circulation of the skin<br/>Placental &amp; Fetal Circulation</p> <p><b>Practical</b><br/><b>CC7:</b><br/><b>Practice</b><br/>Experiments on superficial (plantar) and deep (knee jerk) reflex<br/>Measurement of grip strength</p> <p><b>Theory</b><br/><b>SEC1A:</b><br/>Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in turmeric powder, besan, laddood</p> | <p>8</p> <p>4</p> <p>3</p> | <p><b>Theory</b><br/><b>DSE2B:</b><br/>Concept of excess post exercise oxygen consumption (EPOC), physiological fatigue and recovery.</p> <p>Aerobic work Capacity: Measurement, physiological factors and applications</p> <p>Sports injury and its' management.</p> <p><b>Practical:</b><br/><b>DSE2B:</b><br/>Determination of endurance time by hand grip dynamometer</p> | <p>6</p> <p>4</p> |

|            |   |                   |   |                            |   |                   |
|------------|---|-------------------|---|----------------------------|---|-------------------|
| <b>Nov</b> | <p><b>Theory:</b><br/><b>CC2:</b><br/><b>Thermodynamics</b><br/>Thermodynamics: Type of surroundings and systems, First Law–Internal energy, enthalpy. Second Law–Entropy, Free energy change, Endergonic and Exergonic reactions, Reversible and Irreversible processes, Equilibrium constant Physiological steady-state, Living body as a Thermodynamic system</p> <p><b>Practical:</b><br/>Practice<br/>Determination of enzyme activities (CAT)</p> | <p>5</p> <p>2</p> | <p><b>Theory</b><br/><b>CC6: Cardiovascular Homeostasis in Health &amp; Disease</b><br/>Introduction<br/>Compensation for Gravitational Effects<br/>Exercise<br/>Inflammation &amp; Wound Healing<br/>Shock<br/>Cardiovascular adjustment after haemorrhage. Hypovolemic and hypervolemic shock. RTI and atherosclerosis.<br/>Hypertension<br/>The pulse – arterial and venous. Blood pressure– its measurement and factors affecting.<br/>Heart Failure, stroke</p> <p><b>Practical</b><br/><b>CC7:</b><br/><b>Practice</b><br/>Two point discrimination test</p> <p><b>Theory</b> <b>SEC1A:</b> Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in , noodles, chocolate and amriti.</p> | <p>8</p> <p>2</p> <p>4</p> | <p><b>Theory</b><br/><b>DSE2B:</b><br/>Training: Principles of physical training, Training to improve aerobic and anaerobic power. Effect of overtraining and detraining.<br/>Nutritional supplements and ergogenic aids.<br/>Basic idea sports rehabilitation and sports medicine.</p> <p><b>Practical:</b><br/><b>DSE2B:</b><br/>Determination of endurance time by hand grip dynamometer</p> | <p>8</p> <p>2</p> |
|------------|---|-------------------|---|----------------------------|---|-------------------|

|            |   |          |  |          |   |          |
|------------|---|----------|--|----------|---|----------|
| <b>Dce</b> | <b>Theory:</b><br><b>CC2:</b><br><b>Revision</b>  | <b>4</b> | <b>Theory</b><br><b>CC6:</b><br><b>Revision</b>  | <b>4</b> | <b>Theory</b><br><b>DSE2B:</b><br><b>Revision</b>   | <b>4</b> |
|            | <b>Practical</b><br><b>Practice</b>   | <b>4</b> | <b>Practical</b><br><b>Practice</b>  | <b>4</b> | <b>Practical</b><br><b>Practice</b>   | <b>4</b> |
|            | <b>Examination</b>  |          | <b>Theory SEC1A:</b><br><b>Revision</b>  | <b>3</b> | <b>Examination</b>  |          |
| <b>Jan</b> | <b>Sem-II (H)</b>   |          | <b>Sem-IV (H)</b>  |          | <b>Sem-VI (H)</b>   |          |
|            | <b>Theory</b><br><b>CC4:</b><br><b>Proteins</b><br>Classification of Proteins<br>Definition and classification of proteins<br>Classification, Structure, Nomenclature of proteins and amino acids.<br><br><b>Practical:</b><br><b>CC4:</b><br>Qualitative tests for the identification of physiologically important substances: Hydrochloric acid, lactic Acid, | <b>6</b> | <b>Theory</b><br><b>CC8:</b><br>Nutrition – BMR, RQ, RDA, SDA, NPU, Biological value of proteins, vitamins and minerals.<br><br><b>Practical:</b><br><b>CC8:</b><br>Quantitative estimation of glucose and sucrose by Benedict's method. | <b>8</b> | <b>Theory</b><br><b>DSE3A:</b><br>Constituents of food and their significance.<br><br>Basal metabolic rate -factors, determination by Benedict-Roth apparatus.<br><br>Respiratory quotient.<br><br>Specific dynamic action.<br><br>Basic concept of energy and units.<br><br>Calorific value of foods.<br><br>Body calorie requirements – adult consumption unit<br>_____ | <b>8</b> |
|            |   | <b>4</b> | <b>Theory</b><br><b>SEC2B:</b><br>Preparation of blood smear and identification of blood cells.  | <b>4</b> | <b>Practical:</b><br><b>DSE3A:</b><br><b>Diet Survey (Field Study Record)</b><br>Diet survey report (hand-written) of a family (as per ICMR specification): Each student has to submit a report on his/her own family.  | <b>4</b> |

|            |  |                   |   |                                     |   |
|------------|--|-------------------|---|-------------------------------------|---|
| <b>Feb</b> | <p><b>Theory</b><br/><b>CC4:</b><br/>Structure of Proteins<br/>Structure and properties of peptide bonds--Phi and Psi angles. Different levels of protein structure-- Primary, Secondary (<math>\alpha</math>-helix and <math>\beta</math>-pleated sheet), Tertiary and Quaternary. Forces stabilizing the structures.</p> <p><b>Practical:</b><br/><b>CC4:</b><br/>Qualitative tests for the identification of physiologically important substances: Uric Acid, Glucose</p> | <p>6</p> <p>4</p> | <p><b>Theory</b><br/><b>CC8:</b><br/>Basal metabolic rate-factors, determination by Benedict-Roth apparatus</p> <p><b>Practical:</b><br/><b>CC8:</b><br/>Quantitative estimation of amino nitrogen (Sorensen's formol titration method [percentage as well as total quantity to be done]).</p> <p><b>Theory</b><br/><b>SEC2B:</b><br/>Determination of hematocrit, MCV, MCH, MCHC</p> | <p>6</p> <p>4</p> <p>2</p> <p>2</p> | <p><b>Theory</b><br/><b>DSE3A:</b><br/>Dietary requirements of carbohydrate, protein, lipid and other nutrients.</p> <p>Balanced diet and principles of formulation of balanced diets for growing child, adult man and woman, pregnant woman and lactating woman.</p> <p>Nitrogen balance, essential amino acids, biological value of proteins.</p> <p>Supplementary value of protein.</p> <p>Protein efficiency ratio and net protein utilization of dietary proteins.</p> <p><b>Practical:</b><br/><b>DSE3A:</b><br/><b>Practice</b><br/><b>Diet Survey (Field Study Record)</b><br/>Diet survey report (hand-written) of a family (as per ICMR specification): Each student has to submit a report on his/her own family.</p> <p>10</p> <p>2</p> |
| <b>Mar</b> | <p><b>Theory</b><br/><b>CC4:</b><br/>Properties of Proteins<br/>Protonic equilibria of Amino acids-- Zwitterions, Isoelectric point, titration curve of amino acids. Reactions with ninhydrin and formaldehyde. Reactions with Sanger's and Edman's reagent. Biuret reaction.</p> <p><b>Practical:</b><br/><b>CC4:</b><br/><b>Practice</b></p>   | <p>6</p> <p>2</p> | <p><b>Theory</b><br/><b>CC8:</b><br/>Biological value of proteins – measurement and factors affecting. Proteins spacers. Supplementary value of protein.</p> <p><b>Practical:</b><br/><b>CC8:</b><br/>Estimation of percentage quantity of lactose in milk by Benedict's method.</p> <p><b>Theory</b><br/><b>SEC2B:</b><br/>Determination of bleeding time, clotting time</p>         | <p>4</p> <p>4</p> <p>2</p>          | <p><b>Theory</b><br/><b>DSE3A:</b><br/>Dietary fibres.</p> <p>Vitamins</p> <p>8</p>   |
| <b>Apr</b> | <p><b>Theory</b><br/><b>CC4:</b><br/>Denaturation and Renaturation. Functions of Proteins, Physiological importance of proteins.</p> <p><b>Practical:</b><br/><b>CC4:</b><br/>Qualitative tests for the identification of physiologically important substances: Galactose, Fructose</p>  | <p>6</p> <p>4</p> | <p><b>Theory</b><br/><b>CC8:</b><br/>Protein efficiency ratio and net protein utilization of dietary proteins.</p> <p><b>Practical:</b><br/><b>CC8:</b><br/>Practice<br/>Quantitative estimation of glucose and sucrose by Benedict's method.</p> <p><b>Theory</b><br/><b>SEC2B:</b><br/>Measurement of hemoglobin in blood. Preparation of serum</p>                                 | <p>4</p> <p>4</p> <p>2</p>          | <p><b>Theory</b><br/><b>DSE3A:</b><br/>Principle of diet survey.</p> <p>Composition and nutritional value of common food stuffs.</p> <p>Physiology of starvation and obesity.</p> <p>8</p>  |
| <b>May</b> | <p><b>Theory</b><br/><b>CC4:</b><br/><b>DNA and RNAs</b><br/>Structure of DNA and RNA<br/>Types of DNA and RNA<br/>Functions of DNA and RNA</p> <p><b>Practical:</b><br/><b>CC4:</b><br/><b>Practice</b></p>   | <p>6</p> <p>2</p> | <p><b>Theory</b><br/><b>CC8:</b><br/>Dietary fibres</p> <p><b>Practical:</b><br/><b>CC8:</b><br/>Practice<br/>Quantitative estimation of amino nitrogen (Sorensen's formol titration method [percentage as well as total quantity to be done]).</p> <p><b>Theory</b><br/><b>SEC2B:</b><br/>Estimation of SGOT and SGPT.</p>   | <p>6</p> <p>4</p> <p>4</p>          | <p><b>Theory</b><br/><b>DSE4:</b><br/>Sources and physiological significances of vitamins and minerals.</p> <p>Space nutrition.</p> <p>8</p>  |



|             |                                     |          |                                       |          |                                       |          |
|-------------|-------------------------------------|----------|---------------------------------------|----------|---------------------------------------|----------|
|             |                                     |          |                                       |          |                                       |          |
| <b>June</b> | <b>Theory<br/>CC4:<br/>Revision</b> | <b>4</b> | <b>Theory<br/>CC8:<br/>Revision</b>   | <b>4</b> | <b>Theory<br/>DSE3A:<br/>Revision</b> | <b>4</b> |
|             | <b>Practical<br/>Practice</b>       | <b>4</b> | <b>Practical<br/>Practice</b>         | <b>4</b> | <b>Practical<br/>Practice</b>         | <b>4</b> |
|             | <b>Examination</b>                  |          | <b>Theory<br/>SEC2B:<br/>Revision</b> | <b>2</b> | <b>Examination</b>                    |          |
|             |                                     |          | <b>Examination</b>                    |          |                                       |          |

*Deblina Ball*

**Head**  
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**DEPARTMENT OF  
PHYSIOLOGY**

**TEACHING PLAN**

**DR. AMAL KUMAR PARI**

**Physiology (General/generic) (July 2020 – June 2021)**

| Month | Sem-I (G/GE)  | No. of lecture |
|-------|---|----------------|
| July  | <b>Theory:</b><br><b>CC1A:</b><br>Lipids: Definition and classification. Fatty acids Classification.  | 2              |
| Aug   | <b>Theory:</b><br><b>CC1A:</b><br>Properties of Fat and Fatty acids—Hydrolysis, Saponification, Saponification number, Iodine number, Hydrogenation, Rancidity-Acid number. | 3              |
| Sep   | <b>Theory:</b><br><b>CC1A:</b><br>Phospholipids, Cholesterol & its ester - physiological importance.  | 2              |
| Oct   | <b>Theory:</b><br><b>CC1A:</b><br>Amino acids, Peptides and Proteins  | 2              |
| Nov   | <b>Theory:</b><br><b>CC1A:</b><br>Classification and structure. Structure of peptide bonds.   | 2              |
| Dec   | <b>Theory:</b><br><b>CC1A:</b><br>Revision<br>Examination   | 2              |

| Month | Sem-II (G/GE)   | No. of lecture | Sem-VI (G/GE)   | No. of lecture |
|-------|---|----------------|---|----------------|
| Jan   | <b>Theory:</b><br><b>CC1B:</b><br>Basic constituents of food and their nutritional significance.<br>Vitamins: Definition, classification, functions, deficiency symptoms and their daily requirement.<br>Hypervitaminosis | 3              | <b>Theory:</b><br><b>SEC1A:</b><br>Basic idea of doping                     | 2              |
| Feb   | <b>Theory:</b><br><b>CC1B:</b><br>Mineral metabolism- Ca, P, Fe   | 3              | <b>Theory:</b><br><b>SEC1A:</b><br>EMG                                      | 1              |
| March | <b>Theory:</b><br><b>CC1B:</b><br>BMR: Definition, factors affecting, determination by Benedict –Roth apparatus. Respiratory quotient: definition, factors affecting and significance                                     | 3              | <b>Theory:</b><br><b>SEC1A:</b><br>Physical fitness index-Harvard step test | 1              |
| April | <b>Theory:</b><br><b>CC1B:</b><br>Biological value of proteins, essential and non-essential amino acids, nitrogen equilibrium<br>Minimum protein requirement: positive and negative nitrogen balance.                     | 2              | <b>Theory:</b><br><b>SEC1A:</b><br>ECG- Normal waves and leads              | 2              |
| May   | <b>Theory:</b>  | 2              | <b>Theory:</b>  | 1              |

|      |   |   |  |   |
|------|---|---|--|---|
|      | <b>CC1B:</b><br>SDA: definition and importance                |   | <b>SEC1A:</b><br>Anthropometry and its uses                    |   |
| June | <b>Theory:</b><br><b>CC1B:</b><br>Revision<br><br>Examination | 2 | <b>Theory:</b><br><b>SEC1A:</b><br>Revision<br><br>Examination | 2 |

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## DEPARTMENT OF PHYSIOLOGY

### TEACHING PLAN

**DR. ARIJIT DEBNATH**

**Physiology (Honours) (July 2020 – June 2021)**

| Month | Sem-I (H)  | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|--|----------------|--|----------------|--|----------------|
| Jul   | <p><b>Theory:</b><br/><b>CC2:</b><br/><b>A Study of Enzymes</b></p> <p>Structures, coenzymes and Prosthetic Groups</p> <p>Classification- EC nomenclature, Concept of apoenzyme, holoenzyme, coenzyme, cofactors and prosthetic group. Mechanism of Enzyme Action</p> <p>Mechanism of enzyme action: Activation energy, Enzyme-substrate complex, Transition state and Products. Models of enzyme-substrate interactions. Specificity of enzymes. Kinetics<br/>Concept of initial rate, maximum velocity and steady-state kinetics.</p> <p><b>Practical:</b><br/><b>CC2:</b><br/>Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).</p> | 8              | <p><b>Theory</b><br/><b>CC5:</b></p> <p>Red Blood Cells<br/>Haemoglobin- Structure, reactions, biosynthesis and catabolism. Foetal haemoglobin. Abnormal haemoglobins- Sickle-cell anemia and Thalassemia. Different types of anaemia and their causes.</p> <p><b>Practical</b><br/><b>CC7:</b><br/><b>Introduction</b><br/>Preparation of Amphibian Ringer solution<br/>Kymographic recording of the movements of perfused heart of toad.</p> | 8              | <p><b>Theory</b><br/><b>CC11:</b><br/>Introduction<br/>Anatomic considerations<br/>Hair cells</p> <p><b>CC12:</b><br/><b>Practical:</b><br/>Introduction<br/>Preparation of mammalian Ringer solution</p>        | 8              |
| Aug   | <p><b>Theory:</b><br/><b>CC2:</b><br/>Michaelis Constant</p> <p>Michaelis constant, Michaelis-Menten equation, Graphical representation of hyperbolic kinetics--Lineweaver-Burk plot. Significance of Km and <math>V_{max}</math>.</p> <p><b>Practical:</b><br/><b>CC2:</b><br/>Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).</p>  | 8              | <p><b>Theory</b><br/><b>CC5:</b><br/>Blood Types</p> <p>Blood group – ABO and Rh. Erythroblastosis foetalis. Blood transfusion and its hazards.</p> <p><b>Practical</b><br/><b>CC7:</b><br/>Study of the effects of changes in perfusion fluid pressure, changes in temperature.</p>   | 8              | <p><b>Theory</b><br/><b>CC11:</b><br/>Mechanism of hearing<br/>Vestibular function<br/>Loss of hearing</p> <p><b>CC12:</b><br/><b>Practical:</b><br/>Study of the effects of oxytocin on uterine contraction</p> | 6              |

|             |  |          |  |          |   |          |
|-------------|--|----------|--|----------|---|----------|
| <b>Sept</b> | <b>Theory:</b><br><b>CC2:</b><br>Modulation of Enzyme Activities   | <b>8</b> | <b>Theory</b><br><b>CC5:</b><br>Plasma, Hemostasis   | <b>8</b> | <b>Theory</b><br><b>CC11:</b><br>Introduction<br>Smell<br>Receptors & Pathways                        | <b>8</b> |
|             | Competitive, non-competitive and uncompetitive inhibitions. Regulation of enzyme activities covalent modifications, allosteric modifications–Sigmoid kinetics and Hill equation: K-and M-series, Feed-back inhibition. Rate-limiting enzymes |          | Plasmaproteins– normal values, origin and functions. Hemostasis– factors, mechanism, anticoagulants, procoagulants. Disorders of hemostasis. Hemophilia, thrombosis and embolism |          | <b>CC12:</b><br><b>Practical</b><br>Study of the effects of adrenaline on intestinal movements of rat |          |
|             | <b>Practical:</b><br><b>CC2:</b><br>Determination of enzyme activities (Amylase)   | <b>4</b> | <b>Practical</b><br><b>CC7:</b><br>Study of the effects of calcium and potassium ion concentration on the movement of heart.   | <b>8</b> |   | <b>6</b> |
| <b>Oct</b>  | <b>Theory:</b><br><b>CC2:</b><br>Factors controlling Enzyme Activities   | <b>6</b> | <b>Theory</b><br><b>CC5:</b><br>Lymph  | <b>8</b> | <b>Theory</b><br><b>CC11:</b><br>Physiology of Olfaction<br>Taste                                     | <b>6</b> |
|             | Factors influencing enzyme-catalyzed reactions: substrate concentration, enzyme concentration, Max pH, temperature.  |          | Lymph and tissue fluids– formation, circulation, functions and fate. Lymphatic organs- histological structures and functions of lymph gland and spleen.                          |          | <b>Practical:</b><br><b>CC12:</b><br>Study of the effects of adrenaline on uterine movements of rat   |          |
|             | <b>Practical:</b><br><b>CC2:</b><br>Practice<br>Determination of enzyme activities (Transaminase).   | <b>2</b> | <b>Practical</b><br><b>CC7:</b><br>Study of the effects of acetylcholine and adrenaline concentration on the movement of heart   | <b>8</b> |   | <b>6</b> |

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|------------|--|----------|---|----------|--|----------|
| <b>Nov</b> | <b>Theory:</b><br><b>CC2:</b><br>Isoenzymes, Allosteric Enzymes<br>Pro-enzymes<br>Ribozymes, Abzymes<br>Concept of Rate Limiting Enzymes | <b>8</b> | <b>Theory</b><br><b>CC5:</b><br>Clinical implications of blood and blood related disorders  | <b>8</b> | <b>Theory</b><br><b>CC11:</b><br>Receptor Organs & Pathways<br>Physiology of Taste | <b>6</b> |
|            | <b>Practical:</b><br>Practice<br>Determination of enzyme activities (Amylase, Transaminase).   |          | <b>Practical</b><br><b>CC7:</b><br><b>Practice</b><br>Study of the effects of acetylcholine and adrenaline concentration on the movement of heart |          | <b>Practical:</b><br><b>CC12:</b><br>practice                                      |          |

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| <b>Dce</b> | <b>Theory:</b><br><b>CC2:</b><br><b>Revision</b> | <b>4</b> | <b>Theory</b><br><b>CC5:</b><br><b>Revision</b> | <b>6</b> | <b>Theory</b><br><b>CC11:</b><br><b>Revision</b> | <b>6</b> |
|            | <b>Practical:</b><br><b>Practice</b>             |          | <b>Practical:</b><br><b>Practice</b>            |          | <b>Practical:</b><br><b>Practice</b>             |          |
|            | <b>Examination</b>                               |          | <b>Examination</b>                              |          | <b>Examination</b>                               |          |

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|------------|--|---|--|---|---|---|
| <b>Jan</b> | <b>Sem-II (H)</b>  |   | <b>Sem-IV (H)</b>  |   | <b>Sem-VI (H)</b>   |   |
|            | <b>Theory</b><br><b>CC3:</b><br><b>Cardiac Muscle</b><br><b>Morphology</b><br>Microscopic and electron microscopic structure of cardiac muscles.<br><b>Electrical Properties</b><br><b>Mechanical Properties</b><br><b>Metabolism</b><br>Neurotransmitters, co transmitters and neuromodulators<br><br><b>Practical:</b><br><b>CC3:</b><br>Isolation and staining of staining of nerve fibers with node (s) of Ranvier (AgNO <sub>3</sub> ) and muscle fiber (H and E).<br><br>Preparation of Sciatic nerve innervated Gastrocnemius muscle of toad. | 8 | <b>Theory</b><br><b>CC10:</b><br><b>Pulmonary Function</b><br>Introduction<br>Properties of Gases<br>Anatomy of the Lungs<br>Mechanics of breathing<br>Gas Exchange in the lungs<br><br><b>Practical:</b><br><b>CC9:</b><br>Kymographic recording of normal movements of rat's intestine in Dale's apparatus | 8 | <b>Theory</b><br><b>CC14:</b><br>Renal Circulation<br>peculiarities and autoregulation<br>Diuretics<br>Disorders of Renal Functions<br>Diabetes insipidus.<br><br><b>Practical:</b><br><b>DSE4A:</b><br>Kymographic recording of the effects of As compounds on: the contraction of perfused heart of toad and the intestinal movements of rats in Dale's bath. | 8 |
|            |  | 6 |  | 4 |   | 6 |

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|     |  |                   |   |                   |  |                   |
|-----|--|-------------------|---|-------------------|--|-------------------|
| Feb | <p><b>Theory</b><br/> <b>CC3:</b><br/> <b>Pacemaker Tissue</b><br/> <b>Smooth Muscle</b><br/> <b>Morphology</b><br/> Microscopic and electron microscopic structure of smooth muscles. Single-unit and multi-unit smooth muscle<br/> <b>Visceral smooth Muscle</b><br/> <b>Multi- unit Smooth Muscle</b></p> <p><b>Practical:</b><br/> <b>CC3:</b><br/> Study of Kymograph, Induction coil, Key and other instruments used to study mechanical responses of skeletal muscle.</p> <p>Kymographic recording of mechanical responses of Gastrocnemius muscle to a single stimulus and two successive stimuli.</p> | <p>8</p> <p>6</p> | <p><b>Theory</b><br/> <b>CC10:</b><br/> Pulmonary Circulation<br/> Other Functions of the Respiratory System<br/> <b>Gas Transport Between the Lungs &amp; the Tissues</b><br/> Introduction<br/> Oxygen Transport<br/> Carbon Dioxide Transport</p> <p><b>Practical:</b><br/> <b>CC9:</b><br/> Effects of hypoxia on normal intestinal movements</p>       | <p>8</p> <p>6</p> | <p><b>Theory</b><br/> <b>CC14:</b><br/> Renal function tests–creatinine, inulin, urea and PAH clearance tests. Abnormal constituents of urine, their detection and significance. Renal dialysis.<br/> Artificial Kidney.</p> <p><b>Practical:</b><br/> DSE4A:</p> <p>Kymographic recording of the effects of, Pb compounds on: the contraction of perfused heart of toad, the intestinal movements of rats in Dale's bath.</p> | <p>8</p> <p>6</p> |
| Mar | <p><b>Theory</b><br/> <b>CC3:</b><br/> <b>Synaptic and Junctional Transmission</b><br/> <b>Introduction</b><br/> <b>Synaptic Transmission</b><br/> <b>Functional Anatomy</b><br/> Synapses: types, structure, synaptic transmission of the impulse.,<br/> <b>Electrical Events at Synapses</b><br/> synaptic potentials<br/> <b>Inhibition and Facilitation at Synapses</b><br/> <b>Chemical Transmission at Synaptic Activity</b></p> <p><b>Practical:</b><br/> <b>CC3:</b><br/> Kymographic recording of the effects of variations of temperature on single muscle twitch.</p>                               | <p>8</p> <p>4</p> | <p><b>Theory</b><br/> <b>CC10:</b><br/> Respiratory acidosis and alkalosis<br/> <b>Regulation of Respiration</b><br/> Introduction<br/> Neural control of Breathing<br/> Chemical Control of Breathing<br/> Nonchemical Influences on Respiration</p> <p><b>Practical:</b><br/> <b>CC9:</b><br/> Effects of acetylcholin on normal intestinal movements</p> | <p>8</p> <p>4</p> | <p><b>Theory</b><br/> <b>CC14:</b><br/> Filling of the Bladder<br/> Physiology of urinary bladder<br/> Emptying of the Bladder<br/> Micturition.<br/> Non-excretory function of kidney</p> <p><b>Practical:</b><br/> DSE4A:<br/> Kymographic recordind of the effects of Hg compounds on: the contraction of perfused heart of toad, the intestinal movements of rats in Dale's bath.</p>                                      | <p>8</p>          |
| Apr | <p><b>Theory</b><br/> <b>CC3:</b><br/> <b>Principal neurotransmitter Systems</b><br/> <b>Synaptic Plasticity and learning</b><br/> <b>Neuromuscular Transmission</b><br/> <b>Neuromuscular Junction</b><br/> The neuromuscular junction : structure, transmission, end- plate potential, MEPP and post-tetanic potentiation. Motor unit and Motor point.<br/> <b>Denervation Hypersensitivity</b><br/> <b>Practical:</b><br/> <b>CC3:</b><br/> Kymographic recording of the effects of variations of load (after-load) on single muscle twitch.<br/> Calculation of work done by the muscle.</p>               | <p>8</p> <p>6</p> | <p><b>Theory</b><br/> <b>CC10:</b><br/> <b>Respiratory Adjustments in Health &amp; Disease</b><br/> Introduction<br/> Effects of Exercise<br/> Other Forms of Hypoxia<br/> Oxygen Treatment</p> <p><b>Practical:</b><br/> <b>CC9:</b><br/> Effects of adrenaline on normal intestinal movements</p>   | <p>8</p> <p>4</p> | <p><b>Theory</b><br/> <b>DSE4A:</b><br/> Toxins and Toxicology<br/> Factors Affecting toxicity<br/> LD50, LOD50, ED50, NOEL, LOEL<br/> Concept of Acute and Chronic Effects</p> <p><b>Practical:</b><br/> <b>DSE4A:</b><br/> Histochemical studies: chronic effects of food additives and arsenic compounds on liver, kidney, intestinal tissues in rat.</p>   | <p>8</p> <p>6</p> |
| May | <p><b>Theory</b><br/> <b>CC3:</b><br/> <b>Initiation of Impulses in Sense Organs</b><br/> <b>Introduction</b><br/> <b>Sense Organs and Receptors</b><br/> Classification of general and special senses. Receptors as biological transducers. General concept of ionotropic and metabotropic receptors. Structure, sub-types and functions of nicotinic and muscarinic acetylcholine receptors. Adrenoceptors, glutamate receptors (NMDA and AMPA receptors), GABA, opiate, serotonin, dopamine and histamine receptors.<br/> <b>The Senses</b><br/> <b>Electrical and Ionic Events in Receptors</b></p>        | <p>10</p>         | <p><b>Theory</b><br/> <b>CC10:</b><br/> Hypercapnia &amp; Hypocapnia<br/> Other Respiratory Abnormalities<br/> Effects of Increased Barometric Pressure<br/> Artificial Respiration</p> <p><b>Practical:</b><br/> <b>CC9:</b><br/> <b>Practice</b><br/> Effects of acetylcholine and adrenaline on normal intestinal movements</p>                          | <p>8</p> <p>6</p> | <p><b>Theory</b><br/> <b>DSE4A:</b><br/> Birth defects and Teratogens<br/> Concepts of Biomagnification and Bioconcentration<br/> Popular Food Additives and Food Adulterants<br/> Prevention of Food Adulteration Act, 1954</p> <p><b>Practical:</b><br/> <b>DSE4A:</b><br/> Histochemical studies: chronic effects of food additives and arsenic compounds on brain, muscle and lung tissues in rat.</p>                     | <p>8</p> <p>6</p> |

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|-------------|---|------------|---|------------|--|
|             | Muller's law of specific nerve energies.<br>Weber-Fechner law, Steven's power law.<br>Sensory transduction in Pacinian corpuscle.<br>Adaptation of receptors–phasic and tonic adaptations.<br>“Coding” of Sensory Information<br>CC4T<br><br>Practical:<br>CC3:<br>Determination of nerve conduction velocity | 4          |   |            |  |
| <b>June</b> | Theory<br>CC3:<br>Revision<br><br>Practical<br>Practice<br><br>Examination  | 6<br><br>4 | Theory<br>CC10:<br>Revision<br><br>Practical<br>Practice<br><br>Examination | 6<br><br>6 | Theory<br>DSE3A:<br>Revision<br><br>Practical<br>Practice<br><br>Examination<br><br>6<br><br>4 |

**Interdisciplinary Refresher Course in Biological Science under UGC-HRDC, University of Calcutta  
from 25.02.2021 to 10.03.2021**

*Deblina Ball*

**Head  
Department of Physiology  
Sri Vidyasagar College  
Suri, Birbhum**



**DEPARTMENT OF  
PHYSIOLOGY**

**TEACHING PLAN**

**DR. ARIJIT DEBNATH**

**Physiology (General/generic) (July 2020 – June 2021)**

| Month       | Sem-I (G/GE)   | No. of Lecture | Sem-III (G/GE)   | No. of Lecture | Sem-V (G/GE)   | No. of Lecture |
|-------------|--|----------------|--|----------------|--|----------------|
| <b>Jul</b>  | <b>Theory:</b><br><b>CC1A:</b><br>A brief idea about acids, base, buffers and indicators.                | 2              | <b>Theory</b><br><b>CC1C:</b><br>Anatomy and histology of the heart.<br>Properties of cardiac muscle.<br>Origin and propagation of cardiac impulse.  | 4              | <b>Theory:</b><br><b>DSE1A:</b><br>Structure and classification of nerves.<br>Origin and propagation of nerve impulse.<br>Velocity of impulse in different types of nerve fiber. | 4              |
| <b>Aug</b>  | <b>Theory:</b><br><b>CC1A:</b><br>pH- definition, significance and maintenance of pH in Blood            | 3              | <b>Theory:</b><br><b>CC1C:</b><br>Cardiac cycle: events. Heart sounds.<br>Heart rate. Cardiac output: methods of determination (dye dilution and Fick principle), factors affecting, regulation. | 4              | <b>Theory:</b><br><b>DSE1A:</b><br>Properties of nerve fibers: all or none law, rheobase and chronaxie, refractory period. indefatigability                                      | 3              |
| <b>Sept</b> | <b>Theory:</b><br><b>CC1A:</b><br>Colloids- Definition, classification and physiological importance      | 3              | <b>Theory</b><br><b>CC1C:</b><br>Structure of arteries, arterioles, capillaries. venules and veins.<br>Pulse - arterial and venous.  | 3              | <b>Theory:</b><br><b>DSE1A:</b><br>Synapses: structure, different types, mechanism of synaptic transmission.   | 4              |
| <b>Oct</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Enzymes- definition and classification                                 | 2              | <b>Theory</b><br><b>CC1C:</b><br>Blood pressure and its regulation and factors controlling. Baro- and chemoreceptors. Vasomotor reflexes. Methods of measurement of blood pressure.              | 4              | <b>Theory:</b><br><b>DSE1A:</b><br>Motor unit. Myoneural junction: structure,  | 3              |
| <b>Nov</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Factors affecting enzyme actions, concept of co-enzymes and isoenzymes | 3              | <b>Theory</b><br><b>CC1C:</b><br>Peculiarities of regional circulations coronary, pulmonary, renal, hepatic and cerebral.  | 4              | <b>Theory:</b><br><b>DSE1A:</b><br>Mechanism of impulse transmission.<br><br>Degeneration and regeneration in nerve fibres   | 3              |
| <b>Dec</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Revision<br><br>Examination  | 2              | <b>Theory</b><br><b>CC1A:</b><br>Revision<br><br>Examination   | 3              | <b>Theory:</b><br><b>DSE1A:</b><br>Revision<br><br>Examination   | 3              |
|             | <b>Sem-II (G/GE)</b>   |                | <b>Sem-IV (G/GE)</b>   |                | <b>Sem-VI (G/GE)</b>   |                |

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|-------------|---|---|--|---|--|---|
| <b>Jan</b>  | <b>Theory:</b><br><b>CC1B:</b><br>Structure in relation to functions of alimentary canal and digestive glands.          | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Elementary structure of kidney and location<br>Relationship between structure and function of kidney | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Some common pollutants and their effects- carbon monoxide, lead, arsenic. | 4 |
| <b>Feb</b>  | <b>Theory</b><br><b>CC1B:</b><br>Composition, functions and regulation of secretion of digestive juices including bile  | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Mechanism of formation of urine<br>Normal and abnormal constitution of urine                         | 4 | <b>Theory:</b><br><b>SEC4B:</b><br>Some common pollutants and their effects- carbon monoxide, lead, arsenic. | 4 |
| <b>Mar</b>  | <b>Theory:</b><br><b>CC1B:</b><br>Composition, functions and regulation of secretion of digestive juices including bile | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Physiology of urine storage and micturition  | 4 | <b>Theory:</b><br><b>SEC4B:</b><br>Some common pollutants and their effects- carbon monoxide, lead, arsenic. | 4 |
| <b>Apr</b>  | <b>Theory:</b><br><b>CC1B:</b><br>Digestion and absorption of carbohydrate, protein and lipid.                          | 4 | <b>Theory</b><br>Renal regulation of acid- base balance  | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Effect of noise on human body and preventive measure<br><br>— —           | 4 |
| <b>May</b>  | <b>Theory:</b><br><b>CC1B:</b><br>Movements of the stomach and small intestine  | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Non excretory function of kidney   | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Effect of noise on human body and preventive measure                      | 4 |
| <b>June</b> | <b>Theory:</b><br><b>CC1B:</b><br>Revision<br><br>Examination   | 4 | <b>Theory:</b><br><b>CC1D:</b><br>Revision<br><br>Examination  | 4 | <b>Theory:</b> — —<br><b>SEC4B:</b><br>Revision<br><br>Examination   | 4 |

**Interdisciplinary Refresher Course in Biological Science under UGC-HRDC, University of Calcutta  
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## DEPARTMENT OF PHYSIOLOGY

### TEACHING PLAN

**NUPUR PAUL**

Physiology (Honours) (July 2020 – June 2021)

| Month | Sem-I (H)  | No. of Lectur<br>e | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lectur<br>e |
|-------|--|--------------------|---|----------------|--|--------------------|
| Jul   | <b>Theory:</b><br><b>CC1:</b><br>Organ systems, tissues and cells  | 3                  | <b>Theory</b><br><b>CC5:</b><br>Introduction<br><br>Blood<br><br>Formed elements of blood– origin, formation, functions and fate          | 4              | <b>Theory</b><br><b>DSE2A:</b><br><br>Genesis and concept of ergonomics<br><br>Importance of ergonomics in occupational health and well-being.   | 4                  |
| Aug   | <b>Theory:</b><br><b>CC1:</b><br><b>Functional morphology of cells</b><br><br>Microscopic structure and functions of eukaryotic endoplasmic reticuli, ribosome | 3                  | <b>Theory</b><br><b>CC5:</b><br>Blood volume –normal values, regulation and determination by dye and radioisotope methods.<br>Bone Marrow | 4              | <b>Theory</b><br><b>DSE2A:</b><br>Classification of Physiological work load. Concept of work rest cycle.<br><br>Physical work environment<br><br>Thermal environment, its' effect, Heat stress indices<br><br>Noise and vibration, its' effect on workers. Occupational deafness | 4                  |
| Sept  | <b>Theory:</b><br><b>CC1:</b><br>Microscopic structure and functions of ribosome, golgi bodies, mitochondria   | 3                  | <b>Theory</b><br><b>CC5:</b><br>White Blood Cells   | 4              | <b>Theory</b><br><b>DSE2A:</b><br>Illumination level and its' effect on visual performances,<br><br>Ergonomic principles of control of Physical hazards.   | 3                  |
| Oct   | <b>Theory:</b><br><b>CC1:</b><br>Cell cycle  | 3                  | <b>Theory</b><br><b>CC5:</b><br>Immune Mechanisms   | 4              | <b>Theory</b><br><b>DSE2A:</b><br><br>Static anthropometry, Application of anthropometric data in design.<br><br>User interface and control display compatibility.   | 3                  |

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|-----|--|---|--|--|---|
| Nov | <b>Theory:</b><br><b>CC1:</b><br>Revision  | 3 | <b>Theory</b><br><b>CC5:</b><br>Platelets  | <b>4</b><br><b>Theory</b><br><b>DSE2A:</b><br>Prevention of accidents, concept of Industrial safety.<br><br>Occupational Diseases:<br>pneumoconiosis, asbestosis,<br>silicosis and work-related<br>musculoskeletal disorders | 4 |
| Dec | <b>Theory:</b><br><b>CC1:</b><br>Revision<br><br><b>Examination</b>  | 3 | <b>Theory</b><br><b>CC5:</b><br>Revision<br><br><b>Examination</b>   | <b>4</b><br><b>Theory</b><br><b>DSE2A:</b><br>Revision<br><br><b>Examination</b>   | 3 |
| Jan | <b>Sem-II (H)</b><br><b>Theory</b><br><b>CC3:</b><br><b>Excitable Tissues: Muscle</b><br><br><b>Introduction</b><br><br><b>Skeletal Muscle</b><br><br><b>Morphology</b><br><br>Microscopic and electron microscopic structure of skeletal muscles. The sarco-tubular system. Red and white striated muscle fibers. Muscle groups: antagonists and agonists. Muscle proteins. | 5 | <b>Sem-IV (H)</b><br><b>Theory</b><br><b>CC9:</b><br><b>. Digestion &amp; Absorption</b><br><br>Introduction<br><br>Anatomy and histology of alimentary canal, Deglutition | <b>3</b><br><b>Theory</b><br><b>CC14:</b><br>Renal Functions and Malnutrition: Introduction<br>Anatomy of kidney. Histology of Nephron. —<br>Function of Malpighian corpuscles and renal tubule,<br><br>— —                  | 4 |

|             |   |          |   |          |   |          |
|-------------|---|----------|---|----------|---|----------|
| <b>Feb</b>  | <b>Theory<br/>CC3:<br/>Electrical phenomena and Ionic Fluxes</b><br><br>Chemical, thermal and electrical changes in skeletal muscle during contraction and relaxation. Electromyography.  | <b>4</b> | <b>Theory<br/>CC9:</b><br><br>Movements of alimentary canal and their regulations | <b>3</b> | <b>Theory<br/>CC14:</b><br><br>counter-current mechanism<br>Formation of urine – glomerular function and tubular functions. Counter-current multiplier and exchanger. | <b>4</b> |
| <b>Mar</b>  | <b>Theory<br/>CC3:<br/>Contractile Responses</b><br><br>Mechanism of skeletal muscle contraction and relaxation: Excitation-contraction coupling. Dihydropyridine receptors & Ryanodine receptors.  | <b>4</b> | <b>Theory<br/>CC9:</b><br><br>Absorption of Water & Electrolytes                  | <b>3</b> | <b>Theory<br/>CC14:</b><br><br>Formation of hypertonic urine.<br><br>Water Excretion Renal regulation of osmolarity and volume of blood fluids                        | <b>3</b> |
| <b>Apr</b>  | <b>Theory<br/>CC3:<br/>Energy sources and Metabolism</b><br><br>Mechanical components of muscle. Isometric and isotonic contractions–muscle length, tension and velocity relationships.   | <b>4</b> | <b>Theory<br/>CC9:</b><br><br>Absorption of Vitamins & Minerals                   | <b>3</b> | <b>Theory<br/>DSE4A:</b><br><br>Acidification of the Urine & Bicarbonate Excretion<br>Renal regulation of acid-base balance, acidification of urine                   | <b>3</b> |
| <b>May</b>  | <b>Theory<br/>CC3:<br/>Properties of Muscle in the intact Organism</b><br><br>Properties of skeletal muscle: excitability, contractility, all or none law, summation of stimuli, summation of contractions, effects of repeated stimuli, genesis of tetanus, onset of fatigue, refractory period, tonicity, conductivity, extensibility and elasticity. Optimal load, optimal length of fibers. | <b>5</b> | <b>Theory<br/>CC9:</b><br><br>Absorption of Vitamins & Minerals                   | <b>3</b> | <b>Theory<br/>DSE4A:</b><br><br>Regulation of Na <sup>+</sup> & Cl <sup>-</sup> Excretion   | <b>2</b> |
| <b>June</b> | <b>Theory<br/>CC3:<br/>Revision Examination</b>   | <b>3</b> | <b>Theory<br/>CC9:<br/>Revision Examination</b>                                   | <b>3</b> | <b>Theory<br/>CC14:<br/>Revision Examination</b>  | <b>3</b> |

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**DEPARTMENT OF  
PHYSIOLOGY**

**TEACHING PLAN**

**NUPUR PAUL**

**Physiology (General/generic) (July 2020 – June  
2021)**

| Month       | Sem-I (G/GE)  | No. of Lectur e | Sem-III (G/GE)  | No. of Lectur e | Sem-V (G/GE)   | No. of Lectur e |
|-------------|---|-----------------|---|-----------------|--|-----------------|
| <b>Jul</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Physiological importance of the following physical processes:<br>Diffusion<br>Osmosis   | 4               | <b>Theory</b><br><b>CC1C:</b><br>Anatomy and histology of the respiratory passage and organs.   | 3               | <b>Theory:</b><br><b>DSE1A:</b><br>Different types of muscle and their structure. Red and white muscle.  | 8               |
|             | <b>Practical:</b><br><b>CC1A:</b><br><b>Identification of permanent slides :</b> Bone, Lung, Trachea, Spleen, Lymph gland, Liver, Salivary gland, Pancreas, Adrenal gland, , Thyroid gland,                           | 6               | <b>Practical:</b><br><b>CC1C:</b><br>Leishman's staining of human blood film and identification of different typrs of blood corpuscles. | 4               | <b>Practical:</b><br><b>DSE1A:</b><br>Use of kymograph   | 4               |
| <b>Aug</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Physiological importance of the following physical processes:<br>Dialysis   | 3               | <b>Theory:</b><br><b>CC1C:</b><br>Role of respiratory muscles in breathing. Artificial respiration.                                     | 4               | <b>Theory:</b><br><b>DSE1A:</b><br>Muscular contraction: structural, mechanical and chemical changes in skeletal muscle during contraction and relaxation. | 8               |
|             | <b>Practical:</b><br><b>CC1A:</b><br><b>Identification of permanent slide :</b> Spinal cord, Cerebellum, Cerebral cortex, Kidney, Skin, Testis, Ovary, Tongue, Oesophagus, Stomach, Small intestine, Large intestine. | 6               | <b>Practical:</b><br><b>CC1C:</b><br>Preparation of Haemin crystals.  | 4               | <b>Practical:</b><br><b>DSE1A:</b><br>Recording of pneumography  | 4               |
| <b>Sept</b> | <b>Theory:</b><br><b>CC1A:</b><br>Physiological importance of the following physical processes:<br>Ultrafiltration  | 3               | <b>Theory</b><br><b>CC1C:</b><br>Significance of physiological and anatomical dead space.<br>Lung volumes and capacities.               | 3               | <b>Theory:</b><br><b>DSE1A:</b><br>Isotonic and isometric contractions.  | 4               |
|             | <b>Practical:</b><br><b>CC1A:</b><br>Examination and staining of fresh tissues (other than blood) squamous, certified, ciliated and columnar epithelium,  | 6               | <b>Practical:</b><br><b>CC1C:</b><br>Leishman's staining of human blood film and identification of different typrs of blood corpuscles. | 4               | <b>Practical:</b><br><b>DSE1A:</b><br><b>Practice</b><br>Use of kymograph  | 4               |
| <b>Oct</b>  | <b>Theory:</b><br><b>CC1A:</b><br>Physiological importance of the following physical processes:<br>Surface tension  | 3               | <b>Theory</b><br><b>CC1C:</b><br>Exchange of respiratory gases between lung and blood and between blood and tissues.                    | 4               | <b>Theory:</b><br><b>DSE1A:</b><br>Properties of muscle: all or none law, beneficial effect, summation.  | 6               |
|             | <b>Practical:</b><br><b>CC1A:</b><br>Examination and staining of fresh tissues (other than blood) skeletal muscle, cardiac muscle by methylene blue stain.  | 4               | Transport of oxygen and carbon dioxide in blood.<br><b>Practical:</b><br><b>CC1C:</b><br>Preparation of Haemin crystals.                | 4               | refractory period, tetanus, fatigue.<br><b>Practical:</b><br><b>DSE1A:</b><br><b>Practice</b>  | 2               |

|            |   |   |   |   |  |   |
|------------|---|---|---|---|--|---|
| <b>Nov</b> | <b>Theory:</b><br><b>CC1A:</b><br>Physiological importance of the following physical processes:<br>Adsorption<br>Absorption                                     | 4 | <b>Theory</b><br><b>CC1C:</b><br>Regulation of respiration - neural and chemical. Hypoxia.  | 4 | <b>Theory:</b><br><b>DSE1A:</b><br>A brief idea about the muscle spindle.                                  | 3 |
|            | <b>Practical:</b><br><b>CC1A:</b><br>Staining of adipose tissue by Sudan III or IV.   | 4 | <b>Practical:</b><br><b>CC1C:</b><br>Leishman's staining of human blood film and identification of different types of blood corpuscles. | 4 | <b>Practical:</b><br><b>DSE1A:</b><br><b>Practice</b>  | 2 |
| <b>Dec</b> | <b>Theory:</b><br><b>CC1A:</b><br>Revision  | 3 | <b>Theory</b><br><b>CC1A:</b><br>Revision   | 3 | <b>Theory:</b><br><b>DSE1A</b><br>Revision   | 3 |
|            | <b>Practical:</b><br><b>CC1A:</b><br>Practice<br><br>Examination  | 2 | Examination   |   | Examination  |   |
| <b>Jan</b> | <b>Sem-II (G/GE)</b>  |   | <b>Sem-IV (G/GE)</b>  |   | <b>Sem-VI (G/GE)</b>   |   |
|            | <b>Theory:</b><br><b>CC1B:</b><br>Depot fat. Beta oxidation of saturated fatty acid   | 3 | <b>Theory:</b><br><b>CC1D:</b><br><b>Skin and regulation of body temperature</b><br>Structure and functions of skin                     | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Environment - its physiological aspects.                                | 4 |
|            | <b>Practical:</b><br><b>CC1B:</b><br><b>Quantitative Experiments:</b><br>Quantitative estimation of glucose by Benedict's method.                               | 4 | <b>Practical:</b><br><b>CC1D:</b><br>Identification of normal constitution of urine-Chloride  | 4 |  |   |
| <b>Feb</b> | <b>Theory</b><br><b>CC1B:</b><br>Ketone bodies formation and significance.  | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Insensible and sensible perspiration  | 4 | <b>Theory:</b><br><b>SEC4B:</b><br>_____   | 4 |
|            | <b>Practical:</b><br><b>CC1B:</b><br>Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done. | 4 | <b>Practical:</b><br><b>CC1D:</b><br>Identification of normal constitution of urine-Sulphate  | 4 | Effect of extreme temperature on humans.<br><br>_____  |   |
| <b>Mar</b> | <b>Theory:</b><br><b>CC1B:</b><br>Deamination, Transamination. Amino acid pool  | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Regulation of body temperature-physical and physiological process involved in it.                     | 4 | <b>Theory:</b><br><b>SEC4B:</b><br>Hypobaric environment- effects on physiological system, acclimatization | 4 |
|            | <b>Practical:</b><br><b>CC1B:</b><br>Quantitative estimation of glucose by Benedict's method  | 4 | <b>Practical:</b><br><b>CC1D:</b><br>Identification of normal constitution of urine-Phosphate   | 4 |  |   |
| <b>Apr</b> | <b>Theory:</b><br><b>CC1B:</b><br>fate and functions of amino acids in the body.  | 3 | <b>Theory</b><br><b>CC1D:</b><br><b>Revision</b><br>Structure and functions of skin   | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Hyperbaric conditions and Caisson disease.                              | 4 |
|            | <b>Practical:</b><br><b>CC1B:</b><br>Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done. | 4 | <b>Practical:</b><br><b>CC1D:</b><br>Identification of normal constitution of urine-Creatinine  | 4 |  |   |

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|-------------|---|---|--|---|--|---|
| <b>May</b>  | <b>Theory:</b><br><b>CC1B:</b><br>Formation of urea and its importance. | 3 | <b>Theory:</b><br><b>CC1D:</b><br>Revision<br>Insensible and sensible perspiration       | 3 | <b>Theory:</b><br><b>SEC4B:</b><br>Brief idea of cyanosis, dyspnea, hyperpnoea, apnea, asphyxia. | 4 |
|             | <b>Practical:</b><br><b>CC1B:</b><br>Practice                           | 2 | <b>Practical:</b><br><b>CC1D:</b><br>Identification of normal constitution of urine-Urea | 4 |  |   |
| <b>June</b> | <b>Theory:</b><br><b>CC1B:</b><br>Revision                              | 4 | <b>Theory:</b><br><b>CC1D:</b><br>Revision   | 4 | <b>Theory:</b><br><b>SEC4B:</b><br>Revision  | 4 |
|             | <b>Practical:</b><br><b>CC1B:</b><br>Practice<br><br>Examination        | 2 | <b>Practical:</b><br><b>CC1D:</b><br>Practice<br><br>Examination                         | 4 | <br><br>Examination  |   |

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# DEPARTMENT OF PHYSIOLOGY

## TEACHING PLAN

**DR. DEBLINA BALL**

**Physiology (Honours)**

**(July 2020 – June 2021)**

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|---|----------------|---|----------------|--|----------------|
| Jul   | <p><b>Theory:</b><br/><b>CC1:</b></p> <p>Introduction</p> <p>Body fluid components</p> <p>Organ systems, tissues and cells</p> <p><b>Practical:</b></p> <p><b>CC1:</b></p> <p><b>Study and identification of stained section of different mammalian tissues and organs:</b></p> <p>Lung, Trachea, Spinal cord, Cerebral cortex, Cerebellum,</p>   | 6              | <p><b>Theory</b><br/><b>CC6:</b></p> <p><b>Cutaneous, Deep and Visceral Sensation</b></p> <p>Introduction</p> <p>Ascending and descending tracts: origin, courses, termination and functions.</p> <p>Lower and upper motor neurones.</p> <p>Functions of the spinal cord with special reference to functional changes following hemisection and complete section of spinal cord. Brown-Sequard syndrome, Spinal animal.</p> <p><b>Practical</b></p> <p><b>CC5:</b></p> <p>Preparation and staining of blood film with Leishman's stain.</p> <p>Identification of the blood corpuscles.</p>  | 8              | <p><b>Theory</b><br/><b>CC12:</b></p> <p><b>The Thyroid Gland</b></p> <p>Introduction</p> <p>Anatomic Considerations</p> <p>Formation &amp; Secretion of Thyroid Hormones</p> <p>Transport of Thyroid Hormones</p> <p>Effects of Thyroid Hormones</p> <p>Regulation of Thyroid Secretion</p> <p>Clinical Correlates</p> <p><b>Practical:</b></p> <p><b>CC11:</b></p> <p>Principles of fixation and staining.</p> <p>Staining and identification of fixed endocrine glands and nervous tissue.</p>  | 8              |
| Aug   | <p><b>Theory:</b><br/><b>CC1:</b></p> <p><b>Transports across cell membrane:</b></p> <p>Ionpores, ion pumps, ion channels ionophores. Passive transport. Facilitated diffusion, uniport, symport, antiport. Active transport.</p> <p><b>Intercellular communication :</b></p> <p>Basic idea of tight junctions, gap junctions and cell adhesion molecules</p> <p><b>Practical:</b></p> <p><b>CC1:</b></p> <p><b>Study and identification of stained section of different mammalian tissues and organs:</b></p> <p>Parotid gland, Sub maxillary gland, Sublingual gland, Tongue, Oesophagus, Stomach, Duodenum, Jejunum, Ileum, Large intestine, Liver</p> | 8              | <p><b>Theory</b><br/><b>CC7:</b></p> <p>Pain production, perception and regulation. Referred pain.</p> <p>Pathways</p> <p>Touch</p> <p>Proprioception</p> <p>Temperature</p> <p>Pain</p> <p>Other Sensations</p> <p><b>Control of Posture and Movement :</b></p> <p>Introduction</p> <p>General Principles</p> <p>Corticospinal &amp; Corticobulbar System</p> <p>Anatomy &amp; Function</p> <p>Posture and its regulation</p> <p>Decerebrate rigidity, Decorticate rigidity, Postural reflexes and regulation of Posture</p> <p><b>Practical</b></p> <p><b>CC5:</b></p> <p>Differential count of WBC.</p> <p>Total count of RBC and WBC.</p> <p>Bleeding time and clotting time</p> <p>Hemoglobin estimation</p> | 8              | <p><b>Theory</b><br/><b>CC12:</b></p> <p><b>Endocrine Functions of the Pancreas &amp; the Regulation of Carbohydrate Metabolism:</b></p> <p>Introduction</p> <p>Islet Cell Structure</p> <p>Structure, Biosynthesis, &amp; Secretion of Insulin</p> <p>Effects of Insulin</p> <p>Mechanism of action</p> <p>Insulin Excess</p> <p>Regulation of Insulin Secretion</p> <p>Glucagon</p> <p>Other Islet Cell Hormones</p> <p>Hypoglycemia &amp; Diabetes Mellitus in Humans</p> <p><b>Practical:</b></p> <p><b>CC11:</b></p> <p>Practice</p> <p>Staining and Identification of Histological sections provided</p> | 6              |

|      |  |   |   |                   |
|------|--|---|---|-------------------|
| Sept | <p><b>Theory:</b><br/><b>CC1:</b></p> <p>Capillary Wall</p> <p>Homeostasis</p> <p><b>Practical:</b><br/><b>CC1:</b><br/><b>Study and identification of stained section of different mammalian tissues and organs:</b></p> <p>Kidney, Ureter, Pancreas, Adrenal gland, Thyroid gland, Testis, Ovary</p> | <p>4</p> <p>Basal Ganglia<br/>Cerebellum<br/>Movement disorders</p> <p><b>Neural Basis of Instinctual Behaviour and Emotions :</b></p> <p>a. Introduction<br/>b. Anatomic Considerations<br/>c. Limbic Functions</p> <p>4<br/>Limbic system: structure, connections and functions. Physiology of emotion.</p> <p><b>Practical</b><br/><b>CC5:</b></p> <p>Preparation of haemin crystals</p> <p>Preparation and staining of bone marrow.</p> <p>Measurement of diameter of megakaryocyte.</p>  | <p>8</p> <p><b>The Pituitary Gland:</b><br/>Introduction<br/>Morphology<br/>Posterior pituitary hormones<br/>Growth Hormone<br/>Physiology of Growth<br/>Pituitary Insufficiency<br/>Pituitary Hyperfunction in Humans</p> <p><b>Practical:</b><br/><b>CC11:</b></p> <p>Practice</p> <p>6<br/>Staining and Identification of Histological sections provided</p> | <p>8</p> <p>4</p> |
| Oct  | <p><b>Theory:</b><br/><b>CC1:</b><br/>Revision</p> <p><b>Practical:</b><br/><b>CC1:</b></p> <p>Practice</p> <p>Study and identification of stained section of different mammalian tissues and organs</p>   | <p>6</p> <p><b>Theory</b><br/><b>CC7:</b></p> <p>d. Sexual Behavior<br/>e. Fear &amp; Rage<br/>f. Motivation</p> <p>4<br/><b>Higher Functions of the Nervous System</b></p> <p>a. Introduction<br/>b. Methods<br/>c. Learning &amp; Memory<br/>Higher functions of nervous system: conditioning, learning, short-term and long- term memory.</p> <p><b>Practical</b><br/><b>CC5:</b></p> <p>10. Reticulocyte staining<br/>11. . Blood group determination.</p>  | <p>8</p> <p><b>Theory</b><br/><b>CC12:</b></p> <p>Revision</p> <p><b>Practical:</b><br/><b>CC11:</b></p> <p>Class Test<br/>Staining and Identification of Histological sections provided</p> <p>4</p>   | <p>4</p> <p>4</p> |
| Nov  | <p><b>Theory:</b><br/><b>CC2:</b></p> <p>Question Answer discussion and Assessment</p> <p><b>Practical:</b></p> <p>Class Test<br/>Slide Identification</p>   | <p>5</p> <p><b>Theory</b><br/><b>CC7:</b></p> <p>Speech and Aphasia. Asymmetrical organization of certain cognitive functions-split brain<br/>d. Functions of the Neocortex</p> <p>2</p> <p>Electrophysiology of brain: spontaneous electrical activity of brain, EEG and ECoG, evoked potential, DC potential. Isolated cortex.<br/>e. Disorders relating learning and memory</p> <p><b>Practical</b><br/><b>CC5:</b></p> <p>Practice<br/>Preparation and staining of blood film with Leishman's stain.</p> <p>Identification of the blood corpuscles.</p> | <p>8</p> <p><b>Theory</b><br/><b>CC12:</b></p> <p>Question Answer discussion and Assessment</p> <p><b>Practical:</b></p> <p>Class test on Practical</p> <p>4</p>  | <p>4</p> <p>2</p> |

| Month | Sem-II (H)   |            | Sem-IV (H)   |            | Sem-VI (H)   |             |
|-------|--|------------|--|------------|--|-------------|
| Dec   | <b>Theory:</b><br><b>CC1:</b><br>Revision<br><br><b>Practical</b><br>Practice (if required)<br><br><b>Examination</b>  | 4<br><br>4 | <b>Theory</b><br><b>CC7:</b><br>Revision and Question Answer discussion<br><br><b>Practical</b><br>Practice (if required)<br><br><b>Examination</b>  | 4<br><br>4 | <b>Theory</b><br><b>CC12:</b><br>Revision<br><br><b>Practical</b><br>Practice (if required)<br><br><b>Examination</b>  | 4<br><br>4  |
| Jan   | <b>Theory</b><br><b>CC3:</b><br><br><b>Excitable Tissues: Nerve</b><br><br><b>Introduction</b><br><br><b>Nerve cells</b><br>Structure, classification and functions of neurons, Cytoskeletal elements and axoplasmic flow.<br><b>Excitation and Conduction</b><br><br><b>Practical:</b><br><b>CC3:</b><br><br>Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO <sub>3</sub> ) and muscle fiber (H and E)  | 8<br><br>4 | <b>Theory</b><br><b>CC9:</b><br><br><b>Regulation of Gastrointestinal Function</b><br>Introduction<br><br>Digestive glands – histological structures of salivary glands, pancreas and liver.<br><br><b>Practical:</b><br><b>CC10:</b><br><br>Measurement of peak expiratory flow rate<br>Measurement of oxygen saturation by pulse oxymeter before and after exercise  | 6<br><br>4 | <b>Theory</b><br><b>CC13:</b><br><br>Introduction<br>Primary and accessory sex organs and secondary sex characters, Physiology of puberty.<br>Sex Differentiation & Development a. Chromosomal Sex<br>Embryology of the Human Reproductive System<br>Aberrant Sexual Differentiation<br>Puberty<br>Precocious & Delayed Puberty<br>Menopause<br><br>Pituitary Gonadotropins & Prolactin<br><br><b>Practical:</b><br><b>CC13:</b><br><br>Study of estrous cycle | 8<br><br>6  |
| Feb   | <b>Theory</b><br><b>CC3:</b><br><br><b>Measurement of electrical events</b><br>Propagation of nerve impulse in different types of nerve fibers.<br><b>Ionic basis of excitation and conduction</b><br><br>The resting membrane potential, action potential, electrotonic potentials, current of injury and compound action potential.<br><br><b>Practical:</b><br><b>CC3:</b><br><br>Practice<br><br>Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO <sub>3</sub> ) and muscle fiber (H and E) | 6<br><br>4 | <b>Theory</b><br><b>CC9:</b><br><br>General Considerations<br>Composition, functions and regulation of the secretion of salivary, gastric, pancreatic and intestinal juices and bile. Synthesis of Bile acids. Enterohepatic circulation, Feces and defecation. GALT, MALT. Basic concepts of Peptic Ulcer, Jaundice and Gall-stones Cholelithiasis.<br><br><b>Practical:</b><br><b>CC10:</b><br><br>Measurement of forced expiratory volume (FEV) in first second | 8<br><br>2 | <b>Theory</b><br><b>CC13:</b><br><br><b>The male reproductive System</b><br>Structure<br>Histology of testis<br>Gametogenesis & Ejaculation<br>Endocrine Function of the Testes<br>Control of Testicular Function<br>Abnormalities of Testicular Function<br><br><b>Practical:</b><br><b>CC13:</b><br><br>Staining and identification of kidney and ureter   | 10<br><br>4 |

|                    |  |                   |   |                   |   |                   |
|--------------------|--|-------------------|---|-------------------|---|-------------------|
| <p><b>Mar</b></p>  | <p><b>Theory<br/>CC3:</b></p> <p><b>Properties of mixed nerves</b><br/>Properties of nerve fibers: excitability, conductivity, all or none law, accommodation, adaptation, summation, refractory period, Indefatigability, Chronaxie &amp; rheobase and utilization time. Injury to peripheral nerves—degeneration and regeneration in nerve fiber, changes in the nerve cell body, trans neuronal degeneration, changes in receptor and motor end-plates, denervation hypersensitivity. Thermal changes of nerve during activity</p> <p><b>Practical:<br/>CC4:</b></p> <p>Qualitative tests for the identification of physiologically important substances:</p> <p>Urea, Glycerol, Bile salts</p> | <p>6</p> <p>4</p> | <p><b>Theory<br/>CC9:</b></p> <p>Gastrointestinal hormones</p> <p>Mouth &amp; Esophagus</p> <p>Stomach</p> <p>Exocrine Portion of the Pancreas</p> <p>Liver &amp; Biliary System</p> <p><b>Practical:</b></p> <p><b>CC10:</b></p> <p>Practice</p> | <p>8</p> <p>4</p> | <p><b>Theory<br/>CC13:</b></p> <p>6. Pregnancy<br/>Fertilization, Preliminary ideas of implantation. Structure and functions of placenta. Maintenance of pregnancy and the bodily changes during pregnancy. Pregnancy tests. Parturition.</p> <p><b>Practical:<br/>CC13:</b></p> <p>Pregnancy test from human urine by kit method</p> | <p>8</p> <p>2</p> |
| <p><b>Apr</b></p>  | <p><b>Theory<br/>CC3:</b></p> <p><b>Nerve fibre types and function</b></p> <p><b>Neurotropicins</b><br/>Nerve growth factors and Neurotropicins</p> <p><b>Glia</b><br/>Structure, classification and functions of neuroglia cells</p> <p><b>Practical:<br/>CC4:</b></p> <p>Prctice<br/>Qualitative tests for the identification of Unknown Sample</p>  | <p>4</p> <p>4</p> | <p><b>Theory<br/>CC9:</b></p> <p>Small Intestine</p> <p>Colon</p> <p><b>Practical:</b></p> <p><b>CC10:</b></p> <p>Practice (if required)</p>  | <p>4</p> <p>4</p> | <p><b>Theory<br/>CC13:</b></p> <p>Lactation<br/>Mammogenesis,<br/>Galactopoiesis:<br/>Hormonalcontrol</p> <p><b>Practical:<br/>CC13:</b></p> <p>Practice</p>  | <p>4</p> <p>4</p> |
| <p><b>May</b></p>  | <p><b>Theory<br/>CC3:</b></p> <p>Revision, Question Answer discussion and Assessment</p> <p><b>Practical:<br/>CC4:</b></p> <p>Class Test on Identification of given Unknown Sample</p>   | <p>5</p> <p>2</p> | <p><b>Theory<br/>CC9:</b></p> <p>Revision, Question Answer discussion and Assessment</p> <p><b>Practical:</b></p> <p>Class Test</p>   | <p>5</p> <p>2</p> | <p><b>Theory<br/>CC13:</b></p> <p>Revision, Question Answer discussion and Assessment</p> <p><b>Practical:<br/>CC13:</b></p> <p>Class Test</p>  | <p>5</p> <p>2</p> |
| <p><b>June</b></p> | <p><b>Theory<br/>CC3:</b></p> <p><b>Revision</b></p> <p><b>Practical</b><br/>Practice (if required)</p> <p><b>Examination</b></p>  | <p>2</p> <p>2</p> | <p><b>Theory<br/>CC9:</b></p> <p><b>Revision</b></p> <p><b>Practical</b><br/>Practice (if required)</p> <p><b>Examination</b></p>   | <p>2</p> <p>2</p> | <p><b>Theory<br/>CC13:</b></p> <p><b>Revision</b></p> <p><b>Practical</b><br/>Practice (if required)</p> <p><b>Examination</b></p>  | <p>2</p> <p>2</p> |

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Physiology (Generic/ General)

(July 2020 – June 2021)

| Month | Sem-V (GE/Gen)   | No. of Lecture |
|-------|--|----------------|
| July  | <b>Theory</b><br><b>DSE 1A:</b><br><br><b>Nervous System</b><br>A brief outline of organization and basic functions (sensory, motor and association) of the nervous system, central and peripheral nervous system. (emphasis on the structure of spinal cord and brain stem).<br>Ascending tracts carrying touch, kinaesthetic, temperature and pain sensations. Descending tracts: pyramidal tract and brief outline of the extra-pyramidal tracts. Pain.<br>Reflex action - definition, reflex arc, classification, properties.<br>Functions of the spinal cord. Outline of functions of brain stem. | 12             |
| Aug   | <b>Theory</b><br><b>DSE 1A:</b><br><br>A brief idea of the structure, connections and functions of cerebellum.<br>Different nuclei and functions of thalamus and hypothalamus.<br>Cerebral cortex: histological structure and localization of functions.<br>CSF: composition, formation, circulation and functions.<br>A brief description of the organization of the autonomic (sympathetic and parasympathetic) nervous system. Functions of sympathetic and parasympathetic nervous system.<br>A brief idea of speech, aphasia, conditioning, learning and memory.                                  | 12             |
| Sep   | <b>Theory</b><br><b>SEC 3A:</b><br><br>Virus - DNA virus and RNA virus.<br>Bacteriophage.<br>Bacteria-structure and morphological classification   | 8              |
| Oct   | <b>Theory</b><br><b>SEC 3A:</b><br><br>Gram positive and Gram negative and acid-fast bacteria.<br>Pathogenic and non-pathogenic bacteria - definition with a few examples.<br>Sterilization and Pasteurization   | 8              |
| Nov   | <b>Theory</b><br>Revision, Question Answer discussion and Assessment   | 6              |
| Dec   | <b>Theory</b><br>Examination   | 4              |

| Month | Sem-II (GE/Gen)   | No of Lecture | Sem-VI (GE/Gen)   | No of Lecture |
|-------|---|---------------|---|---------------|
| Jan   | <b>Theory</b><br><b>CC1B</b><br>Metabolism:<br>Pathophysiological significance of the following blood constituents: glucose, urea, creatinine | 6             | <b>Theory</b><br><b>DSE1B</b><br><br>Sensory Physiology:<br>Classification of general and special senses and their receptors.<br>Receptors as biological transducer.<br>Olfaction and Gustation: Structure of sensory organ, neural pathway of olfactory and gustatory sensation. Physiology of olfactory and gustatory sensation. Olfactory and gustatory adaptation. After-taste. | 8             |
| Feb   | <b>Theory</b><br><b>CC1B</b>  |               | <b>Theory</b><br><b>DSE1B</b>   |               |

|     |   |   |   |   |
|-----|---|---|---|---|
|     | Metabolism:<br>Pathophysiological significance of the following blood constituents: uric acid, cholesterol, bilirubin, SGPT and SGOT                                    | 6 | Physiology of olfactory and gustatory sensation. Olfactory and gustatory adaptation. After-taste.<br>Audition: Structure of ear, auditory pathway, mechanism of hearing.  | 8 |
| Mar | <b>Theory</b><br><b>CC1B</b><br>Metabolism:<br>Pathophysiological significance of the following blood constituents:<br>alkaline and acid phosphatases and ketone bodies | 6 | <b>Theory</b><br><b>DSE1B</b><br>Vision: Structure of the eye. Histology of retina. Visual pathway. Light reflex. Chemical changes in retina on exposure to light. Accommodation - mechanism and pathway. Errors of refraction. Positive and negative after-image. Light and dark adaptation. Elementary idea of colour vision and colour blindness | 8 |
| Apr | <b>Theory</b><br><b>CC1B</b><br>Revision and Question Answer discussion   | 6 | <b>Theory</b><br><b>DSE1B</b><br>Revision and Question Answer discussion  | 6 |
| May | <b>Theory</b><br><b>CC1B</b><br>Assessment  | 2 | <b>Theory</b><br><b>DSE1B</b><br>Assessment   | 2 |
| Jun | <b>Examination</b>  | 2 | <b>Examination</b>  | 2 |

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**Suri, Birbhum**

# DEPARTMENT OF PHYSIOLOGY

## TEACHING PLAN

**HAIMANTI CHATTERJEE**

**Physiology (Honours) (July 2020 – June 2021)**

| Month     | Sem-I (H)   | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |          |          |
|-----------|---|----------------|---|----------------|--|----------------|----------|----------|
| <b>Ju</b> | <p><b>Theory:</b><br/><b>CC1:</b></p> <p><b>Functional morphology of cells</b><br/>Plasma membrane and subcellular membranes.<br/>Microscopic structure and functions of eukaryotic endoplasmic reticuli, ribosome, golgi bodies.</p> | <b>4</b>       | <p><b>Theory</b><br/><b>CC7:</b></p> <p><b>Reflexes:</b> a. Introduction<br/>b. Monosynaptic Reflexes: The Stretch Reflex<br/>c. Polysynaptic Reflexes: The Withdrawal Reflex<br/>d. General Properties of Reflexes</p> <p><b>Arousal Mechanism, Sleep and the Electrical Activity of the Brain</b><br/>a. Introduction<br/>b. The Reticular Formation &amp; the Reticular Activating System</p> <p>Reticular formation: organization, connection and functions of ascending and descending reticular formation.<br/>Physiological basis of sleep and wakefulness</p> | <b>4</b>       | <p><b>Theory</b><br/><b>CC12:</b></p> <p><b>The Adrenal Medulla &amp; Adrenal Cortex</b><br/>a. Introduction<br/>b. Adrenal Morphology<br/>c. Adrenal Medulla</p> <p>I. Structure &amp; Function of Medullary Hormones<br/>II. Regulation of Adrenal Medullary Secretion</p> <p>d. Adrenal Cortex<br/>I. Structure &amp; Biosynthesis of Adrenocortical Hormones<br/>II. Effects of Adrenal Androgens &amp; Estrogens<br/>III. Physiologic Effects of Glucocorticoids<br/>IV. Pharmacologic &amp; Pathologic Effects of Glucocorticoids<br/>V. Regulation of Glucocorticoid Secretion<br/>VI. Effects of Mineralocorticoids</p> <p><b>DSE1A: BIOLOGICAL STATISTICS</b></p> <p>Scope of statistics – Principles of statistical analysis of biological data.</p> <p>Basic concepts – variable, parameter, statistics. Sampling.</p> <p>Presentation of data-frequency distribution, frequency polygon, histogram, bar diagram and pie diagram.</p> | <b>3</b>       | <b>5</b> | <b>4</b> |

|                    |   |          |   |                   |  |   |
|--------------------|---|----------|---|-------------------|--|---|
| <p><b>Aug</b></p>  | <p><b>Theory:</b><br/><b>CC1:</b><br/>Microscopic structure and function of mitochondria, lysosomes, peroxisomes.</p> | <p>4</p> | <p><b>Theory</b><br/><b>CC7:</b></p> <p>The Thalamus &amp; the Cerebral Cortex</p> <p>Evoked Cortical Potentials</p> <p>The Electroencephalogram<br/>Physiological Basis of the EEG, Consciousness, &amp; Sleep<br/>Interpretation of abnormal EEG pattern</p>  | <p>4</p> <p>6</p> | <p><b>Theory</b><br/><b>CC12:</b><br/><b>The Adrenal Medulla &amp; Adrenal Cortex</b></p> <p>VII. Regulation of Aldosterone Secretion<br/>VIII. Summary of the effects of Adrenocortical Hyper &amp; Hypofunction in Humans</p> <p><b>Hormonal Control of Calcium Metabolism &amp; the Physiology of Bone</b></p> <p>a. Introduction<br/>b. Calcium &amp; Phosphate Metabolism<br/>c. Bone Physiology<br/>d. Vitamin D &amp; the Hydroxycholecalciferols</p> <p>e. The Parathyroid Glands<br/>f. Calcitonin</p> <p><b>DSE1A: BIOLOGICAL STATISTICS</b></p> <p>Parameters</p> <p>Different classes of statistics- mean, median, mode, mean deviation, variance, standard deviation, standard error of mean.</p> | <p>3</p> <p>6</p> <p>2</p> <p>4</p>                   |
| <p><b>Sept</b></p> | <p><b>Theory:</b><br/><b>CC1:</b><br/>Cytoskeletal elements and centrosomes.</p>                                      | <p>4</p> | <p><b>Theory</b><br/><b>CC7:</b></p> <p>Introduction<br/>Anatomic Organization of Autonomic Outflow<br/>Chemical Transmission at autonomic Junctions</p> <p>Responses of Effector Organs to Autonomic Nerve Impulses<br/>Cholinergic and Adrenergic Discharge</p>   | <p>4</p>          | <p><b>Theory</b><br/><b>CC12:</b><br/>g. Effects of Other Hormones &amp; Humoral Agents on Calcium Metabolism</p> <p><b>Endocrine Functions of the Kidneys, Heart, &amp; Pineal Gland</b></p> <p>a. Introduction<br/>b. The Renin-Angiotensin System<br/>c. Erythropoietin</p> <p>d. The Endocrine Function of the Heart: Atrial Natriuretic Peptide</p> <p>e. Pineal Gland<br/>f. Human chronobiology, biological rhythms; basic concepts and implications</p> <p><b>DSE1A: BIOLOGICAL STATISTICS</b></p> <p>Standard score.<br/>Degrees of freedom</p>   | <p>2</p> <p>5</p> <p>2</p> <p>2</p> <p>3</p> <p>2</p> |
| <p><b>Oct</b></p>  | <p><b>Theory:</b><br/><b>CC1:</b><br/>Cell cycle</p>  | <p>4</p> | <p><b>Theory</b><br/><b>CC7:</b><br/><b>Central Regulation of Visceral Function</b></p> <p>a. Introduction<br/>b. Medulla Oblongata<br/>c. Hypothalamus i. Anatomic Considerations<br/>ii. Hypothalamic Function<br/>iii. Relation to Autonomic Function<br/>iv. Relation to Sleep<br/>v. Relation to Cyclic Phenomena<br/>vi. Hunger<br/>vii. Thirst<br/>viii. Control of Posterior Pituitary Secretion<br/>ix. Control of Anterior pituitary Secretion<br/>x. Temperature Regulation, fever</p> | <p>5</p>          | <p><b>Theory</b><br/><b>DSE1A:</b><br/>Probability.</p> <p>Normal distribution.<br/>Student's t-distribution</p> <p>Practice</p> <p>Testing of hypothesis - Null hypothesis, errors of inference</p> <p>Practice</p>   | <p>8</p> <p>2</p> <p>4</p> <p>2</p>                   |



|            |   |   |  |                         |  |                              |
|------------|---|---|--|-------------------------|--|------------------------------|
|            |   |   |  |                         |  |                              |
| <b>Nov</b> | <b>Theory:</b><br><b>CC1:</b><br><b>Cell division</b><br>a. Mitosis<br>b. Meiosis   | 4 | <b>Theory</b><br><b>CC7:</b><br><br><b>Neural Basis of Instinctual Behaviour and Emotions</b> a. Introduction<br>b. Anatomic Considerations<br>c. Limbic Functions<br><br>Limbic system: structure, connections and functions. Physiology of emotion.<br>d. Sexual Behavior<br>e. Fear & Rage<br>f. Motivation<br><br>Revision<br><br>Class test | 3<br><br><br>4<br><br>2 | <b>Theory</b><br><b>DSE1A:</b><br><br>levels of significance, students' t-test and z score for significance of difference.<br><br>Practice<br><br>Distribution-free test - Chi-square test<br><br>Practice                                     | 6<br><br>4<br><br>4<br><br>2 |
| <b>Dec</b> | <b>Theory:</b><br><b>CC1:</b><br><b>Aging</b><br><br><b>Revision</b><br><br><b>Examination</b>  | 4 | <b>Theory</b><br><b>CC7:</b><br><b>Revision</b><br><br><b>Class test</b><br><br><b>Examination</b>   | 6<br><br>4              | <b>Theory</b><br><b>DSE1A:</b><br><b>Revision</b><br><br><b>Practice</b><br><br><b>Class test</b><br><br><b>Examination</b><br><br>— —   | 6<br><br>4<br><br>4          |
| <b>Jan</b> | <b>Sem-II (H)</b><br><b>Theory</b><br><b>CC4:</b><br><br><b>Carbohydrates</b> a. Classification of Carbohydrates<br><br>Definition and classification of Carbohydrates<br>b. Structure of Carbohydrates | 4 | <b>Sem-IV (H)</b><br><b>Theory</b><br><b>CC8:</b><br><br>Introduction<br><br>Energy metabolism<br><br><b>Carbohydrate metabolism</b><br><br>Glycolysis, R-L cycle Detail, TCA cycle. Gluconeogenesis Cori cycle, Glucose Alanine cycle. Anaplerotic reactions and Amphibolic nature of TCA cycle.<br><br>Pentose Phosphate Pathway.              | 2<br><br>14<br><br>2    | <b>Sem-VI (H)</b><br><b>Theory</b><br><b>CC13</b><br><br>The Female Reproductive system<br>Histology of ovary, Oogenesis, folliculogenesis and ovulation.<br><br>The Menstrual Cycle<br>Formation, functions of corpus luteum and leuteolysis, | 6<br><br>2                   |

|             |  |            |   |                     |  |                     |
|-------------|--|------------|---|---------------------|--|---------------------|
| <b>Feb</b>  | <b>Theory<br/>CC4:</b><br>Cyclic structures- Pyranose and furanose forms, structure of disaccharides and polysaccharides.  | 4          | <b>Theory<br/>CC8:</b><br>Glycogenesis and Glycogenolysis.<br><br>Protein metabolism<br>Amino acids, Amino acid pool.<br>Deamination, transamination, amination and decarboxylation.<br><br>Synthesis of Urea and Nitric oxide.<br><br>Basic idea of glucogenic and ketogenic amino acids.  | 4<br>4<br>4<br>2    | <b>Theory<br/>CC13:</b><br>Menstrual cycle and its regulation<br>b. Ovarian Hormones<br>c. Control of Ovarian Function<br>d. Abnormalities of Ovarian Function   | 10                  |
| <b>Mar</b>  | <b>Theory<br/>CC4:</b><br>c. Properties of Carbohydrates<br><br>Stereoisomerism, optical isomerism, optical activity, epimerism, anomerism, mutarotation and its mechanism.                                      | 4          | <b>Theory<br/>CC8:</b><br>Metabolism of glycine, sulfur-containing amino acids, tryptophan and phenylalanine<br><br>Fat and cholesterol metabolism<br>$\beta$ -oxidation and biosynthesis of saturated and monounsaturated fatty acids.<br>Carnitine shuttle.   | 6<br><br>7          | <b>Theory<br/>CC13:</b><br>Abnormalities in menstrual cycle.<br><br>Onset of menopause and post-menopausal changes,<br>Postmenopausal syndromes.   | 2<br><br>2          |
| <b>Apr</b>  | <b>Theory<br/>CC4:</b><br>Chemical reactions of monosaccharides (Glucose & Fructose) – Reactions with concentrated mineral acids, alkali, phenylhydrazine and their biochemical importance                       | 4          | <b>Theory<br/>CC8:</b><br>Metabolism of Triglycerides.<br><br>Biosynthesis of Lecithin, Cephalin and Cholesterol. Metabolism of Adipose Tissue. Role of lipoproteins in transport and storage of lipids.<br><br>Formation of Reactive Oxygen Species (ROSs) and the role of Catalase, Superoxide Dismutase, Glutathione Peroxidase and Glutathione Reductase in combating oxidative stress– role of vitamins. | 2<br><br>4<br><br>4 | <b>Theory<br/>DSE3B:</b><br>Genes - definition. DNA-structure, DNA replication,<br><br>Transcription of RNA in prokaryotes,<br><br>Genetic code – properties and wobble hypothesis,  | 5<br><br>2<br><br>2 |
| <b>May</b>  | <b>Theory<br/>CC4:</b><br>d. Function of Carbohydrates<br>Derivatives of monosaccharides --Amino sugars, deoxysugars, sugar alcohols, sugar acids, sugar esters, their biochemical and physiological importance. | 4          | <b>Theory<br/>CC8:</b><br>Integration of carbohydrate, fat and protein metabolism<br><br>Biological oxidation– Redox Potential. Mitochondrial Electron Transport Chain. Oxidative Phosphorylation–Inhibitors and uncouplers.<br><br>Practice  | 2<br><br>6<br><br>4 | <b>Theory<br/>DSE3B:</b><br>translation in prokaryotes, regulation of gene expression – operon concept: lac operon, gene mutation<br><br>DNA repairing processes. Basic idea of Recombinant DNA technology and its applications, Polymerase chain reaction (PCR) - basic concepts. | 8<br><br>8          |
| <b>June</b> | <b>Theory<br/>CC4:<br/>Revision</b><br><br><b>Class test</b><br><br><b>Examination</b>   | 2<br><br>2 | <b>Theory<br/>CC8:<br/>Revision</b><br><br><b>Practice</b><br><br><b>Examination</b>  | 4<br><br>4          | <b>Theory<br/>CC13:<br/>Revision</b><br><br><b>Class test</b><br><br><b>Examination</b>  | 4<br><br>2          |

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# DEPARTMENT OF PHYSIOLOGY

## TEACHING PLAN

**HAIMANTI CHATTERJEE**

**Physiology (General) (July 2020 – June 2021)**

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V (G)   | No. of Lecture |
|-------|---|----------------|--|----------------|---|----------------|
| Jul   | <p><b>Theory:</b><br/><b>CC 1A:</b></p> <p><b>Units of Human System</b><br/>Structure and functions of plasma membrane, nucleus and different cell organelles.</p>  | 4              | <p><b>Theory</b><br/><b>CC 1C:</b></p> <p>Blood and Body Fluids<br/>Blood: composition and functions.<br/>Plasma proteins: origin and functions, Plasmapheresis.<br/>Bone marrow. Formed elements of blood-their morphology and functions.</p> <p><b>Practical:</b></p> <p><b>Haematological experiments II:</b><br/>DC of WBC, estimation of haemoglobin</p>                  | 4              | <p><b>Theory</b><br/><b>SEC III: IMMUNOLOGY</b></p> <p>Elementary knowledge of innate and acquired immunity.</p> <p><b>Practical:</b></p> <p><b>Field Study</b></p> <p>Population study of physiological parameters such as height, weight, heart-rate, blood pressure</p>  | 4              |
| Aug   | <p><b>Theory:</b><br/><b>CC 1A:</b></p> <p>Endoplasmic reticulum, Golgi bodies, Mitochondria, Lysosome and Peroxisome.</p>  | 4              | <p><b>Theory</b><br/><b>CC 1C:</b></p> <p>Erythropoiesis and leucopoiesis.<br/>Haemoglobin: different types of compounds and derivatives.<br/>Functions and estimation of haemoglobin.<br/>Abnormal haemoglobins-thalassaemia and sickle-cell anaemia.</p> <p><b>Practical</b><br/><b>CC 1C:</b></p> <p>Blood group determination,<br/>Bleeding time and coagulation time.</p> | 4              | <p><b>Theory</b><br/><b>SEC III:</b></p> <p>Humoral and cell mediated immunity</p> <p><b>Practical:</b></p> <p><b>Field Study:</b></p> <p>Population study of physiological parameters such as height, weight, heart-rate, blood pressure</p>   | 4              |
| Sept  | <p><b>Theory:</b><br/><b>CC 1A:</b></p> <p>Structure, function and classification of Epithelial, Connective, Muscular and Nervous tissues.</p>  | 4              | <p><b>Theory</b><br/><b>CC 1C:</b></p> <p>Blood volume and its determination (dye method and Radioisotope method) and regulation.<br/>Coagulation of blood: mechanism, factors affecting, procoagulants, anticoagulants, and disorders of coagulation.</p>   | 4              | <p><b>Theory</b><br/><b>SEC III:</b></p> <p>Vaccination-principles and importance of immunization.<br/>A brief idea of antibiotics</p> <p><b>Practical:</b></p> <p><b>Field Study</b></p> <p>Population study of physiological parameters such as height, weight, heart-rate, blood pressure<br/>respiratory rate, PFI, TC of RBC, estimation of haemoglobin, DC of WBC</p> | 4              |
| oct   | <p><b>Theory:</b><br/><b>CC 1A:</b></p> <p><b>Biochemistry of Biomolecules.</b></p> <p>a. Carbohydrates: Definition and classification.<br/>b. Monosaccharide-Classification, structure.<br/>Chemical reactions of monosaccharide (Glucose &amp; Fructose)-<br/>Reactions with concentrated mineral acids, alkali,<br/>Phenyl hydrazine and their biochemical importance.<br/>c. Disaccharides-Maltose, Lactose and Sucrose: Structure, occurrence and physiological importance</p> | 4              | <p><b>Theory</b><br/><b>CC 1C:</b></p> <p>Lymph and tissue fluids: composition, formation, and functions.</p> <p><b>Practical</b><br/><b>CC 1C:</b><br/><b>Practice</b></p>  | 4              | <p><b>Theory</b><br/><b>.SEC III:</b></p> <p>Basic principle of immunological detection of Pregnancy.</p>   | 2              |

|            |  |                |   |                |   |                |
|------------|--|----------------|---|----------------|---|----------------|
| <b>Nov</b> | <b>Theory:</b><br><b>CC 1A:</b><br>Polysaccharides–Starch, Glycogen, Dextrin, Cellulose  | 4              | <b>Theory</b><br><b>CC 1C:</b><br>Blood groups-ABO and Rh. Blood transfusion-precaution and hazards. Immunological basis of identification of ABO and Rh blood groups<br><br><b>Practical</b><br><b>CC 1C:</b><br><b>Practice</b>   | 4<br><br><br>2 | <b>Theory</b><br><b>SEC III:</b><br>Revision.<br><br>Class test   | 4              |
| <b>Dec</b> | <b>Theory:</b><br><b>CC1A:</b><br><b>Revision</b><br><br>Class test<br><br><b>Examination</b>  | 2<br><br>2     | <b>Theory</b><br><b>CC 1C:</b><br>Anaemia-types (definition and causes). Leucocytosis, leucopenia and leukaemia. Purpura<br><br><b>Revision</b><br><br><b>Practical</b><br><b>Practice</b><br><br><b>Examination</b>  | 4<br><br><br>2 | <b>Theory</b><br><b>SEC III</b><br><b>Revision</b><br><br><b>Practical</b><br><b>Practice</b><br><br><b>Examination</b>   | 4<br><br>2     |
| <b>Jan</b> | <b>Sem-II (G)</b><br><br><b>Theory</b><br><b>CC 1B:</b><br><b>Metabolism</b><br><br>Glycolysis, TCA cycle, Glycogenesis, Glycogenolysis, Gluconeogenesis<br><br><b>Practical:</b><br>I. Qualitative Experiments:<br>Qualitative tests for identification of starch, dextrin, lactose, sucrose, glucose, fructose, albumin, gelatin, peptone, lactic acid | 4<br><br><br>2 | <b>Sem-IV (G)</b><br><br><b>Theory</b><br><b>CC 1D:</b><br><b>Endocrine System</b><br>Anatomy of endocrine system. Hormones - classification. Basic concept of regulation of hormone actions. Positive and negative Feedback mechanism. Elementary idea of hormone action. Hypothalamus: Basic concept of neurohormone.<br><br>Hypothalamo hypophyseal tract and portal system.<br><br><b>Practical:</b><br><b>CC 1D:</b><br>Identification of abnormal constituents of urine - glucose, protein, acetone blood and bile salts. | 4<br><br><br>2 | <b>Sem-VI (G)</b><br><br><b>Theory</b><br><b>DSE 1B:</b><br><b>Reproductive Physiology</b><br>Primary and accessory sex organs and secondary sex characters. Testis: histology, spermatogenesis, testicular hormones and their functions.<br><br>— — —<br><br><b>Practical:</b><br><b>Human Experiments II</b><br>Pneumographic recording of respiratory movements along with The effect of drinking of water, talking, forced hyperventilation and breath holding. | 4<br><br><br>2 |

|            |   |   |   |                   |   |        |
|------------|---|---|---|-------------------|---|--------|
| <b>Feb</b> | <p><b>Theory</b><br/><b>CC 1B:</b><br/>Depot fat. Beta oxidation of saturated fatty acid</p> <p>Ketone bodies, formation and significance.</p>                                      | 4 | <p><b>Theory</b><br/><b>CC 1D:</b><br/>Pituitary: Histological structure, hormones, functions. Hypo and Hyperactive states of pituitary gland.</p> <p><b>Practical:</b><br/><b>CC 1D:</b><br/><b>Practice</b></p>   | <p>4</p> <p>2</p> | <p><b>Theory</b><br/><b>DSE 1B</b><br/>Ovary : histology, oogenesis, ovarian hormones and their functions.</p> <p><b>Practical:</b><br/><b>Human Experiments II</b></p> <p>Measurement of some common anthropometric parameters: stature, weight, eye height, shoulder height, elbow height. Sitting height, elbow rest height(sitting), knee height(sitting), arm reach from wall,</p> | 4      |
| <b>Mar</b> | <p><b>Theory</b><br/><b>CC 1B:</b><br/>Deamination, Transamination. Amino acid pool-fate and functions of amino acids in the body.</p> <p>Formation of urea and its importance.</p> | 4 | <p><b>Theory</b><br/><b>CC 1D:</b><br/>Thyroid: Histological structure. Functions of thyroid hormones &amp; thyrocalcitonin.</p> <p>Hypo and hyper-active states of thyroid</p>   | 4                 | <p><b>Theory</b><br/><b>DSE 1B:</b><br/>Spermatogenesis &amp; Oogenesis – processes and Factors controlling.</p> <p><b>Practical:</b><br/><b>Human Experiments II</b></p> <p>Measurement of some common anthropometric parameters: Mid -arm circumference, waist circumference, hip circumference, neck circumference, head circumference, chest circumference.</p>                     | 4<br>2 |
| <b>Apr</b> | <p><b>Theory</b><br/><b>CC 1B:</b><br/>Brief idea of HMP shunt and its significance</p> <p>Lipoproteins -types and functions</p>  | 4 | <p><b>Theory</b><br/><b>CC 1D:</b><br/><b>Parathyroid:</b> Histological structure, functions of parathyroid hormone. Tetany.<br/><b>Adrenal Cortex:</b> Histological structure and functions of different hormones. Hypo and hyper-active states of adrenal cortex.<br/><b>Adrenal Medulla:</b> Histological structure and functions of medullary hormones. The relation of adrenal medulla with the sympathetic Nervous system</p> | 6                 | <p><b>Theory</b><br/><b>DSE 1B:</b><br/>Oestrus and menstrual cycles and their hormonal control. Fertilization, implantation and structure and functions of placenta.</p>   | 4      |
| <b>May</b> | <p><b>Theory</b><br/><b>CC 1B:</b><br/>Purine and pyrimidine bases, nucleosides, nucleotides and polynucleotides</p>  | 4 | <p><b>Theory</b><br/><b>CC 1D:</b><br/>Pancreas: Histology of islets of Langerhans. Origin and functions of pancreatic hormones. Diabetes mellitus. Brief Idea of the origin and functions of renin-angiotensin, prostaglandins. Erythropoietin and melatonin. Elementary idea of gastrointestinal hormone.</p>   | 6                 | <p><b>Theory</b><br/><b>DSE 1B:</b><br/>Maintenance of pregnancy –role of hormones. Development of mammary gland and lactation-role of Hormones</p>   | 4      |

|             |                              |   |                              |   |                               |   |
|-------------|------------------------------|---|------------------------------|---|-------------------------------|---|
| <b>June</b> | Theory<br>CC 1B:<br>Revision | 2 | Theory<br>CC 1D:<br>Revision | 4 | Theory<br>DSE 1B:<br>Revision | 4 |
|             | Practical<br>Practice        | 2 | Practical<br>Practice        | 2 | Practical<br>Practice         | 2 |
|             | Examination                  |   | Examination                  |   | Examination                   |   |

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**DEPARTMENT OF BENGALI S.V.C**  
**Teaching Plan 2020-21**

**July-December 2020**  
**HONOURS**

**প্রথম সেমিস্টার সাম্মানিক**

CC-1 বাংলা সাহিত্যের ইতিহাস : প্রাচীন ও মধ্যযুগ

চর্যাগীতি থেকে বৈষ্ণব পদাবলী ও তার প্রধান প্রধান কবি পর্যন্ত- S.M class-30

মঙ্গলকাব্য থেকে বাউলগান পর্যন্ত – U.G Class-30

CC-2 – ছন্দ ও অলংকার

ছন্দ- SD class-30

অলংকার SBM class-30

**তৃতীয় সেমিস্টার সাম্মানিক**

CC-5 বাংলা সাহিত্যের ইতিহাস (১৮০১-১৯৫০)

বাংলা গদ্যের উৎপত্তি ও বিকাশ- S.M Class-12

কবিতা- Sb.M Class-12

কথাসাহিত্য-Sb.M Class-12

নাটক- U.G Class-12

প্রবন্ধ- S.D class-12

CC-6 ভাষাতত্ত্ব

বাংলা ভাষার উৎস, ইতিহাস ও যুগবিভাগ; ধ্বনির উচ্চারণ স্থান। -U.G Class-20

ধ্বনির বর্ণীকরণ ও ধ্বনির পরিবর্তন; শব্দার্থ তত্ত্ব; সাধু-চলিত; বাংলা শব্দ ভাণ্ডার; বাক্যতত্ত্ব; বাংলা উপভাষা। - S.D

Class-40

CC-7 উনিশ শতকের কাব্য

বীরঙ্গনা কাব্য-S.M Class-30

সারদামঙ্গল-P.M Class-30

**পঞ্চম সেমিস্টার সাম্মানিক**

CC-11 – গল্প

গল্পগুচ্ছ- P.M Class-30

একালের গল্প- U.G Class-30

CC-12 প্রবন্ধ ও প্রাচ্য কাব্যতত্ত্ব

প্রবন্ধ সংকলন- S.D

Class-30

কাব্য জিজ্ঞাসা- S.M

Class-30

DSE-1 উনিশ শতকের বাংলা কাব্য ও প্রবন্ধ

উনিশ শতকের বাংলা আখ্যানকাব্য – S.M

Class-15

গীতিকবিতা- Sb.M

Class-15

উনিশ শতকের বাংলা প্রবন্ধ – S.D

Class-30

DSE-2 উনিশ শতকের বাংলা নাটক ও কথা সাহিত্য

উনিশ শতকের বাংলা নাটক- U.G

Class-30

উনিশ শতকের বাংলা উপন্যাস ও গল্প- Sb.M

Class-30

## Teaching Plan 2020-21

JULY-DECEMBER- 2020

GENERAL COURSE

### SEM-1 (GENERAL)

GE-1/CC-1A – (H+ G) প্রবন্ধসাহিত্য

বঙ্কিমচন্দ্র চট্টোপাধ্যায়- P.M

Class-30

রবীন্দ্রনাথ ঠাকুর-P.M

Class-30

### SEM-3 (GENERAL)

GE-3/CC-1C (H+ G) বাংলা সাহিত্যের ইতিহাস

চর্যাগীতি থেকে বিদ্যাসাগর- S.M

Class-10

উপন্যাস- P.M

Class-10

নাটক- P.M

Class-10

ছোটগল্প-Sb.M

Class-10

প্রবন্ধ-Sb.M

Class-10

কবিতা-Sb.M

Class-10

SEC-1 (H+G) বাংলা ব্যাকরণ

পদ পরিচয়, সন্ধি, সমাস- U.G

Class-10

কারক, বিভক্তি, বাচ্য, বাক্য পরিবর্তন – S.D

Class-10



## SEM-5 (GENERAL)

DSE-1A (GEN) উনিশ শতকের বাংলা উপন্যাস/গল্প

উনিশ শতকের বাংলা উপন্যাস-

প্রারম্ভ থেকে বঙ্কিমচন্দ্র পর্যন্ত – SD Class-30

বঙ্কিম যুগের অন্যান্য ঔপন্যাসিক- UG Class-30

GE-1 (GEN) উনিশ শতকের বাংলা প্রবন্ধ- No STUDENT FOR THIS SEM.

SEC-3 (GEN) প্রবন্ধ ও প্রতিবেদন

প্রবন্ধ রচনা- Sb.M Class-10

প্রতিবেদন রচনা-S.M Class-10

## Teaching Plan 2020-21

January-June 2021

HONOURS

দ্বিতীয় সেমিস্টার সাম্মানিক

সিসি-৩

বৈষ্ণব পদাবলী- এস.এম Class-30

শাক্তপদাবলী – ইউ.জি Class-30

সিসি-৪

রামায়ণ- এস.ডি Class-30

অন্নদামঙ্গল- এস.বি.এম Class-30

চতুর্থ সেমিস্টার সাম্মানিক

সিসি-৮

রবীন্দ্র কবিতা- ইউ.জি Class-30

আধুনিক কবিতা- এস.ডি Class-30

সি সি-৯

চন্দ্রশেখর- এস.এম Class-30

গণদেবতা- পি.এম Class-30

সিসি-১০

নীলদর্পণ- এস.বি.এম Class-30

শারদোৎসব – ইউ.জি Class-30

## ষষ্ঠ সেমিস্টার সাম্মানিক

### সিসি-১৩

|                                 |          |
|---------------------------------|----------|
| সংস্কৃত সাহিত্যের ইতিহাস- ইউ.জি | Class-30 |
| ইংরেজি সাহিত্যের ইতিহাস- এস.ডি  | Class-30 |

### সিসি-১৪

|                            |          |
|----------------------------|----------|
| সাহিত্যের রূপ-রীতি – এস.এম | Class-30 |
| সাহিত্যের সংরূপ- পি.এম     | Class-30 |

### ডি.এস.ই -৩

|  |          |
|--|----------|
| স্বাধীনতা পূর্ববর্তী বাংলা গল্প- ইউ.জি       | Class-30 |
| স্বাধীনতা পূর্ববর্তী বাংলা উপন্যাস- এস.বি.এম | Class-30 |

### ডি.এস.ই-৪

|   |          |
|---|----------|
| *প্রবন্ধ রচনা- এস.এম                                    | Class-30 |
| *লোকসংস্কৃতি ও লোকসাহিত্য-                              |          |
| শুরু থেকে ধাঁধা পর্যন্ত – এস.ডি                         | Class-15 |
| লোকসংগীত, লোকনাট্য, মন্ত্র, ময়মনসিংহ গীতিকা – এস.বি.এম | Class-15 |

## Teaching Plan 2020-21

January-June 2021

GENERAL COURSE

## SEM-2 GENERAL

### জি.ই-২/ সিসি-১বি

|                                 |          |
|---------------------------------|----------|
| প্রভাতকুমার মুখোপাধ্যায়- পি.এম | Class-30 |
| শরৎচন্দ্র চট্টোপাধ্যায়- পি.এম  | Class-30 |

### এ.ই.সি.সি-২

\*ভাষা অংশ

|  |          |
|--|----------|
| ক) বোধপরীক্ষা- স্বদেশী সমাজ, বাংলা ভাষা, বই পড়া, স্ত্রী জাতির অবনতি, অপবিজ্ঞান- পি.এম |          |
| খ) সংবাদপত্রে প্রতিবেদন রচনা- পি.এম  | Class-5  |
| গ) ইংরেজি থেকে বাংলায় অনুবাদ- এস.ডি   | Class-5  |
| *সাহিত্য অংশ- কবিতার ভাবসৌন্দর্য বিশ্লেষণ- এস.এম                                       | Class-10 |
| *ছোটগল্পের সাহিত্যমূল্য বিচার- এস.বি.এম  | Class-10 |

**সিসি-(এল২-১)- পিওর পাশ স্টুডেন্টদের জন্য**

|                        |          |
|------------------------|----------|
| আদরিণী- ইউ.জি          | Class-12 |
| তারিণী মাঝি- এস.ডি     | Class-12 |
| মৌরিফুল- এস.এম         | Class-12 |
| হারানের নাতজামাই-পি.এম | Class-12 |
| তাজমহল- এস.বি.এম       | Class-12 |

**SEM-4 GENERAL**

**জি.ই-৪/সিসি১ডি**

বাংলা ভাষার উৎস- থেকে- ভাষাতাত্ত্বিক বৈশিষ্ট্য পর্যন্ত – এস.বি.এম Class-30

শব্দ ভান্ডার, সাধু-চলিত, উপভাষা- এস.ডি Class-30

**এস.ই.সি-২**

পত্রলিখন, প্রতিবেদন- এস.এম Class-10

অনুচ্ছেদ, ভাবার্থ ও ভাব সম্প্রসারণ- পি.এম Class-10

**এল২-২**

বলাকা, বনলতাসেন- ইউ.জি Class-12

আমার কৈফিয়ত,বিরহ- এস.ডি Class-12

প্রার্থনা, মল্লয়ার দেশ- এস.এম Class-12

কাস্তে, পরাণ মাঝি- এস.বি.এম Class-12

বাবরের প্রার্থনা, অবনী বাড়ি আছ- পি.এম Class-12

**SEM-6 GENERAL**

**ডি.এস.ই-১বি**

উনিশ শতকের বাংলা নাটক- ইউ.জি Class-60

অথবা

উনিশ শতকের বাংলা প্রবন্ধ- এস.ডি Class-60

**জিই-২**

উনিশ শতকের বাংলা ভ্রমণসাহিত্য ও চিঠিপত্র- এস.এম Class-60

**এস.ই.সি-৪**

ব্যবহারিক বাংলাচর্চা ও অনুবাদচর্চা- এস.বি.এম Class-20

এস.এম= Smt. Sailee Mukherjee, Associate Professor

ইউ.জি= Dr. Ujjwal Kumar Gangopadhyay, Associate Professor

এস.ডি= Dr. Sristidhar Das, Associate Professor

এস.বি.এম= Sri Sunil Baran Mondal, Assistant Professor 1

পি.এম= Smt. Pinki Mondal, SACT

**SEMESTER WISE CLASS ALLOTMENT**  
Academic Year July2020-June 2021

|       | Sem<br>1H | Sem<br>1G | Sem<br>2H | Sem<br>2G | Sem<br>3H | Sem<br>3G | Sem<br>4H | Sem<br>4G | Sem<br>5H | Sem<br>5G | Sem<br>6H | Sem<br>6G |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| S.M   | 30        |           | 30        | 22        | 42        | 10        | 30        | 22        | 45        | 10        | 60        | 60        |
| U.G   | 30        |           | 30        | 12        | 32        | 10        | 60        | 12        | 60        | 30        | 60        | 60        |
| S.D   | 30        |           | 30        | 17        | 52        | 10        | 30        | 42        | 60        | 30        | 45        | 60        |
| S.B.M | 30        |           | 30        | 22        | 24        | 30        | 30        | 42        | 45        | 10        | 45        | 20        |
| P.M   |           | 60        |           | 65        | 30        | 20        | 30        | 22        | 30        |           | 30        |           |



|            |                                      |        |            |           |   |           |            |           |   |           |            |           |  |
|------------|--------------------------------------|--------|------------|-----------|---|-----------|------------|-----------|---|-----------|------------|-----------|--|
|            |                                      |        |            |           |   |           |            |           |   |           |            |           |  |
| <b>Aug</b> | CC-1:FINANCIAL ACCOUNTING-I (1.2 CG) | Unit1  | <b>BK</b>  | <b>10</b> | CC-5: COST ACCOUNTING- II (3.1 CG)      | Unit1     | <b>KD</b>  | <b>10</b> | CC-9: TAXATION-I (5.1 CG)<br>Unit 1   | Unit1     | <b>MLT</b> | <b>10</b> |  |
|            |                                      | Unit-2 | <b>KD</b>  | <b>10</b> |   | Unit-2    | <b>MLT</b> | <b>10</b> |   | Unit-2    | <b>KD</b>  | <b>10</b> |  |
|            |                                      | Unit-3 | <b>MLT</b> | <b>10</b> |   | Unit-3    | <b>BK</b>  | <b>10</b> |   | Unit-3    | <b>SPD</b> | <b>10</b> |  |
|            | CC-2:BUSINESS MANAGEMENT (1.3 CG)    | Unit1  | <b>SPD</b> | <b>10</b> | CC-6: FINANCIAL ACCOUNTING- II (3.2 CG) | Unit1     | <b>MLT</b> | <b>8</b>  | CC-10:AUDITING (5.2 CG)   | Unit-2    | <b>SPD</b> | <b>10</b> |  |
|            |                                      |        |            |           |   | Unit-2    | <b>KD</b>  | <b>10</b> |   | Unit-2    | <b>SPD</b> | <b>10</b> |  |
|            |                                      |        |            |           |   | Unit2     | <b>SPD</b> | <b>10</b> |   | Unit-3    | <b>BH</b>  | <b>10</b> |  |
|            |                                      |        |            |           | SEC-1:E-COMMERCE (3.4 CG)               | Unit2     | <b>SPD</b> | <b>10</b> | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)<br><br>OR<br>DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG)       | Unit-3    | <b>MLT</b> | <b>10</b> |  |
|            |                                      |        |            |           | Unit3                                   | <b>BH</b> | <b>10</b>  | Unit-4    |   | <b>KD</b> | <b>10</b>  |           |  |
|            |                                      |        |            |           |   |           |            | Unit-2    |   | <b>BH</b> | <b>15</b>  |           |  |
|            |                                      |        |            |           |   |           |            |           | DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)<br><br>OR<br>DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) | Unit-2    | <b>BK</b>  | <b>15</b> |  |
|            |                                      |        |            |           |   |           |            |           |   | Unit-2    | <b>SPD</b> | <b>10</b> |  |

|             |                                      |        |            |           |  |        |            |           |   |        |            |           |  |
|-------------|--------------------------------------|--------|------------|-----------|--|--------|------------|-----------|---|--------|------------|-----------|--|
|             |                                      |        |            |           |  |        |            |           |   |        |            |           |  |
| <b>Sept</b> | CC-1:FINANCIAL ACCOUNTING-I (1.2 CG) | Unit1  | <b>BK</b>  | <b>10</b> | CC-5: COST ACCOUNTING- II (3.1 CG)                   | Unit-4 | <b>KD</b>  | <b>10</b> | CC-9: TAXATION-I (5.1 CG)<br>Unit 1                         | Unit-4 | <b>MLT</b> | <b>10</b> |  |
|             |                                      | Unit-2 | <b>KD</b>  | <b>10</b> |  | Unit-2 | <b>MLT</b> | <b>10</b> |   | Unit-5 | <b>KD</b>  | <b>10</b> |  |
|             |                                      | Unit-3 | <b>MLT</b> | <b>10</b> |  | Unit-3 | <b>BK</b>  | <b>10</b> |   | Unit-3 | <b>SPD</b> | <b>10</b> |  |
|             | CC-2:BUSINESS MANAGEMENT (1.3 CG)    | Unit-2 | <b>SPD</b> | <b>10</b> | CC-6: FINANCIAL ACCOUNTING- II (3.2 CG)              | Unit3  | <b>MLT</b> | <b>10</b> | CC-10:AUDITING (5.2 CG)                                     | Unit-3 | <b>SPD</b> | <b>10</b> |  |
|             |                                      |        |            |           | SEC-1:E-COMMERCE (3.4 CG)<br>Unit 3: Digital Payment | Unit-4 | <b>KD</b>  | <b>10</b> | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)                     | Unit-5 | <b>MLT</b> | <b>10</b> |  |
|             |                                      |        |            |           |  | Unit-4 | <b>SPD</b> | <b>10</b> | OR  | Unit-4 | <b>KD</b>  | <b>10</b> |  |
|             |                                      |        |            |           |  | Unit-5 | <b>BH</b>  | <b>10</b> | DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG)      | Unit-3 | <b>BH</b>  | <b>15</b> |  |
|             |                                      |        |            |           |  |        |            |           | DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)                    | Unit-3 | <b>BK</b>  | <b>15</b> |  |
|             |                                      |        |            |           |  |        |            |           | OR  |        |            |           |  |
|             |                                      |        |            |           |  |        |            |           | DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) | Unit-3 | <b>SPD</b> | <b>10</b> |  |

|            |                                      |                           |                                      |            |   |            |                                    |           |   |  |                                     |           |
|------------|--------------------------------------|---------------------------|--------------------------------------|------------|---|------------|------------------------------------|-----------|---|--|-------------------------------------|-----------|
| <b>Oct</b> | CC-1:FINANCIAL ACCOUNTING-I (1.2 CG) | Unit1                     | <b>BK</b>                            | <b>10</b>  | CC-5: COST ACCOUNTING- II (3.1 CG)      | Unit-4     | <b>KD</b>                          | <b>8</b>  | CC-9: TAXATION-I (5.1 CG)<br>Unit 1   | Unit-4   | <b>MLT</b>                          | <b>7</b>  |
|            |                                      | Unit-2                    | <b>KD</b>                            | <b>10</b>  |   | Unit-5     | <b>MLT</b>                         | <b>10</b> |   | Unit-5   | <b>KD</b>                           | <b>7</b>  |
|            |                                      | Unit-3                    | <b>MLT</b>                           | <b>10</b>  |   | Unit-3     | <b>BK</b>                          | <b>7</b>  |   | Unit-3   | <b>SPD</b>                          | <b>7</b>  |
|            | CC-2:BUSINESS MANAGEMENT (1.3 CG)    | Unit-3                    | <b>SPD</b>                           | <b>10</b>  | CC-6: FINANCIAL ACCOUNTING- II (3.2 CG) | Unit-5     | <b>MLT</b>                         | <b>7</b>  | CC-10:AUDITING (5.2 CG)   | Unit-4   | <b>SPD</b>                          | <b>10</b> |
|            |                                      |                           |                                      |            |   | Unit-4     | <b>KD</b>                          | <b>10</b> |   | Unit-5   | <b>MLT</b>                          | <b>8</b>  |
|            |                                      | SEC-1:E-COMMERCE (3.4 CG) | Unit-4                               | <b>SPD</b> | <b>10</b>                               | Unit-4     | <b>SPD</b>                         | <b>10</b> | DSE-1:<br>MANAGEMENT ACCOUNTING (5.3.1 CG)<br><br>OR<br>DSE-1:<br>FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG) | Unit-4   | <b>KD</b>                           | <b>7</b>  |
|            |                                      |                           | Unit-5                               | <b>BH</b>  | <b>10</b>                               | Unit-5     | <b>BH</b>                          | <b>10</b> |   | Unit-4   | <b>BH</b>                           | <b>10</b> |
|            |                                      |                           |                                      |            |   |            |                                    |           |   | DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)<br><br>OR<br>DSE-2:<br>FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) | Unit-4                              | <b>BK</b> |
|            |                                      |                           |                                      |            |   |            |                                    |           |   | Unit-4   | <b>SPD</b>                          | <b>10</b> |
|            |                                      | <b>Nov</b>                | CC-1:FINANCIAL ACCOUNTING-I (1.2 CG) | Unit-4     | <b>BK</b>                               | <b>10</b>  | CC-5: COST ACCOUNTING- II (3.1 CG) | Unit-4    | <b>KD</b>   | <b>7</b>   | CC-9: TAXATION-I (5.1 CG)<br>Unit 1 | Unit-4    |
| Unit-5     | <b>KD</b>                            |                           |                                      | <b>16</b>  | Unit-5                                  | <b>MLT</b> |                                    | <b>10</b> | Unit-5  | <b>KD</b>  |                                     | <b>7</b>  |



|            |   |                                      |  |  |  |  |   |   |   |  |   |   |
|------------|---|--------------------------------------|--|--|--|--|---|---|---|--|---|---|
|            | CC-2:BUSINESS MANAGEMENT (1.3 CG)<br>Unit 4: Staffing and Leading | Unit-3<br><br>Unit-4                 | <b>MLT</b><br><br><b>SPD</b>                 | <b>10</b><br><br><b>12</b>                 | CC-6: FINANCIAL ACCOUNTING- II (3.2 CG)<br><br>SEC-1:E-COMMERCE (3.4 CG) | Unit-3<br><br>Unit-5<br>Unit-4<br><br>Unit-4<br>Unit-5 | <b>BK</b><br><br><b>MLT</b><br><b>KD</b><br><br><b>SPD</b><br><b>BH</b> | <b>6</b><br><br><b>8</b><br><b>10</b><br><br><b>10</b><br><b>10</b> | CC-10:AUDITING (5.2 CG)<br><br>DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)<br><br>OR<br>DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG)<br><br>DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)<br><br>OR<br>DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) | Unit-3<br><br>Unit-5<br><br>Unit-5<br>Unit-4<br><br>Unit-5<br><br>Unit-5<br><br>Unit-5 | <b>SPD</b><br><br><b>SPD</b><br><br><b>MLT</b><br><b>KD</b><br><br><b>BH</b><br><br><b>BK</b><br><br><b>SPD</b> | <b>7</b><br><br><b>10</b><br><br><b>8</b><br><b>7</b><br><br><b>10</b><br><br><b>7</b><br><br><b>10</b> |
| <b>Dec</b> | CC-1:FINANCIAL ACCOUNTING-I (1.2 CG)                              | Unit-4<br><br>Unit-5<br><br>Revision | <b>BK</b><br><br><b>KD</b><br><br><b>MLT</b> | <b>10</b><br><br><b>10</b><br><br><b>5</b> | CC-5: COST ACCOUNTING- II (3.1 CG)                                       | Revision<br><br>Revision<br><br>Revision               | <b>KD</b><br><br><b>MLT</b><br><br><b>BK</b>                            | <b>8</b><br><br><b>5</b><br><br><b>7</b>                            | CC-9: TAXATION-I (5.1 CG)<br>Unit 1<br><br><br>CC-10:AUDITING   | Revision<br><br>Revision<br><br>Revision<br><br>Unit-5                                 | <b>MLT</b><br><br><b>KD</b><br><br><b>SPD</b><br><br><b>SPD</b>   | <b>6</b><br><br><b>7</b><br><br><b>7</b><br><br><b>10</b>   |

|            |   |  |  |  |  |  |  |   |  |  |   |  |
|------------|---|--|--|--|--|--|--|---|--|--|---|--|
|            | CC-2:BUSINESS MANAGEMENT (1.3 CG)<br>Unit 5: Control                      | Unit-5                                       | <b>SPD</b>   | <b>15</b>  | CC-6: FINANCIAL ACCOUNTING- II (3.2 CG)<br><br>SEC-1:E-COMMERCE (3.4 CG)   | Unit-5<br>Revision<br><br>Revision<br>Revision | <b>MLT</b><br><b>KD</b><br><b>SPD</b><br><b>BH</b>         | <b>10</b><br><b>7</b><br><b>7</b><br><b>7</b>           | (5.2 CG)<br><br>DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)<br><br>OR<br><br>DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG)<br><br>DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)<br><br>OR<br><br>DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) | Revision<br>Revision<br><br>Revision<br><br>Revision<br><br>Revision | <b>MLT</b><br><b>KD</b><br><br><b>BH</b><br><br><b>BK</b><br><br><b>SPD</b> | <b>8</b><br><b>7</b><br><br><b>8</b><br><br><b>7</b><br><br><b>8</b> |
|            | <b>Sem-II (H)</b>   |  |  |  | <b>Sem-IV (H)</b>  |  |  |   | <b>Sem-VI (H)</b>  |  |   |  |
| <b>Jan</b> | GE-1: PRINCIPLES OF ECONOMICS (2.2 CG)<br><br>CC-3: BUSINESS LAW (2.3 CG) | Unit-1<br><br>Unit-1<br><br>Unit-1<br>Unit-2 | <b>BK</b><br><br><b>SPD</b><br><br><b>KD</b><br><b>MLT</b> | <b>12</b><br><br><b>10</b><br><br><b>10</b><br><b>10</b> | CC-7:FINANCIAL ACCOUNTING-III (4.1 CG)<br><br>CC-8:CORPORATE LAWS (4.2 CG)<br><br>SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL) | Unit-1<br>Unit-2<br><br>Unit-1<br><br>Unit-1   | <b>KD</b><br><b>MLT</b><br><br><b>SPD</b><br><br><b>BH</b> | <b>10</b><br><b>15</b><br><br><b>13</b><br><br><b>4</b> | SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)<br><br>GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG)  | Unit-1<br><br>Unit-1<br>Unit-2                                       | <b>BH</b><br><br><b>BK</b><br><b>BH</b>                                     | <b>10</b><br><br><b>12</b><br><b>10</b>                              |

|            |   |  |  |  |   |  |   |   |  |  |  |  |
|------------|---|--|--|--|---|--|---|---|--|--|--|--|
|            | CC-4: COST ACCOUNTING-I (2.4 CG)  |  |  |  | (4.3 CG)<br>SEC-3: ENTREPRENEURSHIP (4.4 CG)  | Unit-1   | <b>BK</b>   | <b>7</b>  | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG)<br>OR<br>DSE-3: TAXATION-II (6.3.2 CG)<br>DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG)<br>OR<br>DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG) | Unit-1<br>Unit-2<br><br>Unit-1<br>Unit-2<br><br>Unit-1<br>Unit-2     | <b>KD</b><br><b>BK</b><br><br><b>MLT</b><br><b>KD</b><br><br><b>SPD</b><br><b>MLT</b><br><br><b>MLT</b><br><b>KD</b> | <b>10</b><br><b>10</b><br><br><b>10</b><br><b>10</b><br><br><b>15</b><br><b>10</b><br><br><b>10</b><br><b>13</b> |
| <b>Feb</b> | GE-1: PRINCIPLES OF ECONOMICS (2.2 CG)<br><br>CC-3: BUSINESS LAW (2.3 CG)<br><br>CC-4: COST ACCOUNTING-I (2.4 CG) | Unit-2<br><br>Unit-2<br><br>Unit-1<br>Unit-2 | <b>BK</b><br><br><b>SPD</b><br><br><b>KD</b><br><b>MLT</b> | <b>10</b><br><br><b>10</b><br><br><b>10</b><br><b>13</b> | CC-7: FINANCIAL ACCOUNTING-III (4.1 CG)<br><br>CC-8: CORPORATE LAWS (4.2 CG)<br><br>SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL) (4.3 CG)<br><br>SEC-3: ENTREPRENEURSHIP (4.4 CG) | Unit-1<br>Unit-2<br><br>Unit-2<br><br>Unit-2<br><br>Unit-2 | <b>KD</b><br><b>MLT</b><br><br><b>SPD</b><br><br><b>BH</b><br><br><b>BK</b> | <b>10</b><br><b>10</b><br><br><b>13</b><br><br><b>10</b><br><br><b>10</b> | SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)<br><br>GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG)<br><br>DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG)<br>OR<br>DSE-3:                | Unit-2<br><br>Unit-3<br>Unit-2<br><br>Unit-3<br>Unit-2<br><br>Unit-3 | <b>BH</b><br><br><b>BK</b><br><b>BH</b><br><br><b>KD</b><br><b>BK</b><br><br><b>MLT</b>                              | <b>10</b><br><br><b>12</b><br><b>10</b><br><br><b>10</b><br><b>10</b><br><br><b>10</b>                           |



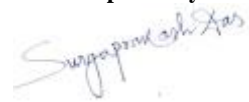


|            |  |                  |                         |                        |   |                  |                         |                        |  |                  |  |  |
|------------|--|------------------|-------------------------|------------------------|---|------------------|-------------------------|------------------------|--|------------------|--|--|
|            |  |                  |                         |                        |   |                  |                         |                        |  |                  |  |  |
| <b>May</b> | GE-1: PRINCIPLES OF ECONOMICS (2.2 CG) | Unit-5           | <b>BK</b>               | <b>10</b>              | CC-7:FINANCIAL ACCOUNTING-III (4.1 CG)                        | Unit-5<br>Unit-4 | <b>KD</b><br><b>MLT</b> | <b>10</b><br><b>10</b> | SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)            | Unit-5           |  |  |
|            | CC-3: BUSINESS LAW (2.3 CG)            | Unit-5           | <b>SPD</b>              | <b>15</b>              | CC-8:CORPORATE LAWS (4.2 CG)                                  | Unit-5           | <b>SPD</b>              | <b>12</b>              | GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG)           | Unit-5<br>Unit-4 |  |  |
|            | CC-4: COST ACCOUNTING-I (2.4 CG)       | Unit-5<br>Unit-4 | <b>KD</b><br><b>MLT</b> | <b>10</b><br><b>10</b> | SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL) (4.3 CG) | Unit-5           | <b>BH</b>               | <b>10</b>              | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG)                 | Unit-5<br>Unit-4 |  |  |
|            |  |                  |                         |                        | SEC-3: ENTREPRENEURSHIP (4.4 CG)                              | Unit-5           | <b>BK</b>               | <b>10</b>              | OR<br>DSE-3: TAXATION-II (6.3.2 CG)                          | Unit-5<br>Unit-4 |  |  |
|            |  |                  |                         |                        |   |                  |                         |                        | DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG)                      | Unit-4<br>Unit-5 |  |  |
|            |  |                  |                         |                        |   |                  |                         |                        | OR<br>DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG) | Unit-5<br>Unit-4 |  |  |



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Prepared By



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Assistant Professor,  
Department of Commerce  
Suri Vidyasagar College





## DEPARTMENT OF COMMERCE

### TEACHING PLAN OF B.com (Honours) (July 2020 – June 2021 Odd and Even Semester)

| Month      | Sem-I (H)                           | Units  | Teachers Name | No. of Lecture | Sem-III (H)                                      | Units                                  | Teachers Name | No. of Lecture | Sem-V (H)                  | Units   | Teachers Name | No. of Lecture  |           |           |           |
|------------|-------------------------------------|--------|---------------|----------------|--|--|---------------|----------------|----------------------------|---|---------------|---|-----------|-----------|-----------|
| <b>Jul</b> | CC1:FINANCIAL ACCOUNTING-I (1.2 CH) | Unit1  | <b>BK</b>     | <b>6</b>       | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) | Unit1                                  | <b>BH</b>     | <b>10</b>      | CC-11: TAXATION-I (5.1 CH) | Unit1   | <b>KD</b>     | <b>10</b>   |           |           |           |
|            |                                     | Unit-2 | <b>MLT</b>    | <b>6</b>       |  | Unit2                                  | <b>MLT</b>    | <b>10</b>      |                            | Unit2   | <b>MLT</b>    | <b>10</b>   |           |           |           |
|            |                                     | Unit-3 | <b>KD</b>     | <b>6</b>       |  | Unit-1                                 | <b>MLT</b>    | <b>5</b>       | CC-12: AUDITING (5.2 CH)   | Unit-1  | <b>SPD</b>    | <b>10</b>   |           |           |           |
|            | CC-2:BUSINESS MANAGEMENT(1.3 CH)    | Unit-1 | <b>SPD</b>    | <b>10</b>      | CC-6: COST ACCOUNTING-II (3.2 CH)                | Unit2                                  | <b>KD</b>     | <b>10</b>      |                            | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)                 | Unit-1        | <b>MLT</b>  | <b>10</b> |           |           |
|            |                                     | Unit2  | <b>BH</b>     | <b>7</b>       |  | Unit-1                                 | <b>KD</b>     | <b>10</b>      | Unit-2                     |   | <b>KD</b>     | <b>10</b>   |           |           |           |
|            | GE-1:BUSINESS MATHEMATICS(1.4 CH)   | Unit-1 | <b>BH</b>     | <b>10</b>      | CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)          | Unit-1                                 | <b>KD</b>     | <b>10</b>      | OR                         | DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) | Unit-1        | <b>BK</b>   | <b>13</b> |           |           |
|            |                                     | Unit-2 | <b>BK</b>     | <b>10</b>      |  | Unit-2                                 | <b>MLT</b>    | <b>10</b>      |                            |   | Unit-1        | <b>BK</b>   | <b>15</b> |           |           |
|            | SEC-1 E-COMMERCE (3.4 CH)           |        |               |                |  | GE-3: PRINCIPLES OF ECONOMICS (3.5 CH) | Unit-1        | <b>SPD</b>     | <b>6</b>                   | DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH)                | Unit-1        | <b>BK</b>   | <b>15</b> |           |           |
|            |                                     |        |               |                |  |  | Unit-1        | <b>SPD</b>     | <b>12</b>                  |   | OR            | DSE-2: ADVERTISING (5.4.2 CH)<br>Unit 1: Introduction | Unit1     | <b>BH</b> | <b>10</b> |
|            |                                     |        |               |                |  |  |               |                |                            |   |               |   |           |           |           |

|             |                                   |               |            |           |  |               |            |           |   |               |            |           |
|-------------|-----------------------------------|---------------|------------|-----------|--|---------------|------------|-----------|---|---------------|------------|-----------|
| <b>Aug</b>  | CC1:FINANCIAL ACCOUNTING-I        | <b>Unit-2</b> | <b>MLT</b> | <b>6</b>  | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) | <b>Unit-2</b> | <b>BH</b>  | <b>5</b>  | CC-11: TAXATION-I (5.1 CH)  | <b>Unit-1</b> | <b>KD</b>  | <b>6</b>  |
|             |                                   | <b>Unit-1</b> | <b>BK</b>  | <b>6</b>  |  | <b>Unit-1</b> | <b>MLT</b> |           |   | <b>5</b>      |            |           |
|             |                                   | <b>Unit-3</b> | <b>KD</b>  | <b>7</b>  |  | <b>Unit-2</b> | <b>MLT</b> |           |   | <b>5</b>      |            |           |
|             | CC-2:BUSINESS MANAGEMENT(1.3 CH)  | <b>Unit-1</b> | <b>SPD</b> | <b>10</b> | CC-6: COST ACCOUNTING-II (3.2 CH)                | <b>Unit-1</b> | <b>MLT</b> | <b>5</b>  | CC-12: AUDITING (5.2 CH)  | <b>Unit-2</b> | <b>SPD</b> | <b>15</b> |
|             |                                   | <b>Unit-2</b> | <b>BH</b>  | <b>10</b> |  | <b>Unit-2</b> | <b>KD</b>  |           |   | <b>10</b>     |            |           |
|             | GE-1:BUSINESS MATHEMATICS(1.4 CH) | <b>Unit-1</b> | <b>SPD</b> | <b>10</b> | CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)          | <b>Unit-1</b> | <b>KD</b>  | <b>10</b> | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)<br>:<br>OR<br>DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) | <b>Unit-2</b> | <b>KD</b>  | <b>10</b> |
|             |                                   | <b>Unit-2</b> | <b>BK</b>  | <b>10</b> |  | <b>Unit-2</b> | <b>MLT</b> |           |   | <b>10</b>     |            |           |
|             |                                   | <b>Unit-1</b> | <b>BH</b>  | <b>10</b> | SEC-1 E-COMMERCE (3.4 CH)                        | <b>Unit-2</b> | <b>SPD</b> | <b>10</b> |   | <b>Unit-2</b> | <b>BK</b>  | <b>10</b> |
|             |                                   | <b>Unit-2</b> | <b>BK</b>  | <b>10</b> |  | <b>Unit-2</b> | <b>SPD</b> | <b>10</b> |   | <b>Unit-2</b> | <b>BK</b>  | <b>10</b> |
|             |                                   | <b>Unit-1</b> | <b>BH</b>  | <b>10</b> | GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)           | <b>Unit-2</b> | <b>SPD</b> | <b>10</b> | DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH)<br>OR<br>DSE-2: ADVERTISING (5.4.2 CH)                               | <b>Unit-2</b> | <b>SPD</b> | <b>13</b> |
|             | <b>Unit-2</b>                     | <b>BH</b>     | <b>10</b>  |           | <b>Unit-2</b>                                    | <b>SPD</b>    | <b>10</b>  |           | <b>Unit-3</b>   | <b>BH</b>     | <b>10</b>  |           |
| <b>Sept</b> | CC1:FINANCIAL ACCOUNTING-I        | Unit3         | <b>KD</b>  | <b>5</b>  | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) | Unit3         | <b>BH</b>  | <b>10</b> | CC-11: TAXATION-I (5.1 CH)  | Unit3         | <b>KD</b>  | <b>10</b> |
|             |                                   | Unit-4        | <b>BK</b>  | <b>5</b>  |  | <b>Unit-3</b> | <b>KD</b>  | <b>10</b> |   | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |
|             |                                   | Unit-5        | <b>MLT</b> | <b>10</b> |  | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |   | <b>Unit-3</b> | <b>SPD</b> | <b>10</b> |
|             | CC-2:BUSINESS MANAGEMENT(1.3 CH)  | <b>Unit-1</b> | <b>SPD</b> | <b>10</b> | CC-6: COST ACCOUNTING-II (3.2 CH)                | <b>Unit-3</b> | <b>KD</b>  | <b>10</b> | CC-12: AUDITING (5.2 CH)  | <b>Unit-3</b> | <b>SPD</b> | <b>10</b> |
|             |                                   | <b>Unit-2</b> | <b>BH</b>  | <b>10</b> |  | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |   | <b>Unit-3</b> | <b>KD</b>  | <b>12</b> |
|             | GE-1:BUSINESS MATHEMATICS(1.4 CH) | <b>Unit-3</b> | <b>BK</b>  | <b>10</b> | CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)          | <b>Unit-3</b> | <b>KD</b>  | <b>10</b> | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)<br>:<br>OR<br>DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |
|             |                                   | <b>Unit-4</b> | <b>BH</b>  | <b>10</b> |  | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |   | <b>Unit-3</b> | <b>BK</b>  | <b>10</b> |
|             |                                   |               |            |           |  | <b>Unit-3</b> | <b>SPD</b> | <b>10</b> |   |               |            |           |

|            |                                     |                             |           |          |  |  |           |          |  |                                |                     |                             |          |
|------------|-------------------------------------|-----------------------------|-----------|----------|--|--|-----------|----------|--|--------------------------------|---------------------|-----------------------------|----------|
|            |                                     |                             |           |          | GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)           | Unit-3   | SPD       | 10       | DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CH)<br><br>OR<br>DSE-2: ADVERTISING (5.4.2 CH)                         | Unit-3<br><br>Unit-4<br>Unit-3 | BK<br><br>SPD<br>BH | 13<br><br>7<br>10<br><br>15 |          |
| <b>Oct</b> | CC1: FINANCIAL ACCOUNTING-I         | Unit-5<br>Unit-4            | MLT<br>BK | 10<br>10 | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) | Unit-4   | BH        | 10       | CC-11: TAXATION-I (5.1 CH)   | Unit-4<br>Unit-3               | MLT<br>KD           | 10<br>10                    |          |
|            | CC-2: BUSINESS MANAGEMENT (1.3 CH)  | Unit-3<br>Unit-4            | SPD<br>BH | 10<br>10 | CC-6: COST ACCOUNTING-II (3.2 CH)                | Unit-5<br>Unit-4                                 | KD<br>MLT | 10<br>10 | CC-12: AUDITING (5.2 CH)   | Unit-4                         | SPD                 | 13                          |          |
|            | GE-1: BUSINESS MATHEMATICS (1.4 CH) | Unit-4<br>Unit-5A           | BH<br>BK  | 10<br>10 | CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)          | Unit-4<br>Unit-5                                 | MLT<br>KD | 15<br>10 | DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)<br><br>OR<br>DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) | Unit-4<br>Unit-5<br>Unit-4     | MLT<br>KD<br>BK     | 10<br>10<br>10              |          |
|            |                                     |                             |           |          | SEC-1 E-COMMERCE (3.4 CH)                        | Unit-4   | SPD       | 10       | DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CH)  | Unit-4                         | BK                  | 13                          |          |
|            |                                     |                             |           |          | GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)           | Unit-4   | SPD       | 10       | Unit 3: Financial Institutions<br><br>OR<br>DSE-2: ADVERTISING (5.4.2 CH)                                    | Unit-4<br>Unit-5               | SPD<br>BH           | 6<br>7                      |          |
|            |                                     |                             |           |          |  |  |           |          |  |                                |                     |                             | 8        |
|            | <b>Nov</b>                          | CC1: FINANCIAL ACCOUNTING-I | Revision  | KD       | 3  | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) | Unit-5    | BH       | 10   | CC-11: TAXATION-I (5.1 CH)     | Unit-4<br>Unit-5    | MLT<br>KD                   | 10<br>10 |

|            |   |  |  |                                    |   |  |  |  |   |  |   |   |
|------------|---|--|--|------------------------------------|---|--|--|--|---|--|---|---|
|            | CC-2:BUSINESS MANAGEMENT(1.3 CH)<br><br>GE-1:BUSINESS MATHEMATICS(1.4 CH)                                   | Unit-5<br>Unit-4<br><br>Unit-5<br><br>Unit-5A<br>Unit-5B                   | MLT<br>BK<br><br>SPD<br><br>BH<br>BK       | 5<br>4<br><br>5<br><br>5<br>5      | CC-6: COST ACCOUNTING-II (3.2 CH)<br><br>CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)<br><br>SEC-1 E-COMMERCE (3.4 CH)<br>Unit 4: ERP<br><br>GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)                                      | Unit-5<br>Unit-4<br><br>Unit-5<br>Unit-4<br><br>Unit-5<br><br>Unit-5         | KD<br>MLT<br><br>KD<br>MLT<br><br>SPD<br><br>SPD | 8<br>7<br><br>15<br>10<br><br>10<br><br>10 | CC-12: AUDITING (5.2 CH)<br><br>DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)<br><br>OR<br>DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH)<br><br>DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH)<br>Unit 4: Financial Services<br><br>OR<br>DSE-2: ADVERTISING (5.4.2 CH) | Unit-5<br>Unit-4<br>Unit-5<br><br>Unit-5<br><br>Unit-5<br>Unit-4<br>Unit-5   | SPD<br>MLT<br>KD<br><br>BK<br><br>BK<br>SPD<br>BH | 10<br><br>8<br>8<br><br>10<br><br>7<br>10<br>10 |
| <b>Dec</b> | CC1:FINANCIAL ACCOUNTING-I<br><br>CC-2:BUSINESS MANAGEMENT(1.3 CH)<br><br>GE-1:BUSINESS MATHEMATICS(1.4 CH) | Revision<br>Revision<br>Revision<br><br>Revision<br><br>Unit-5A<br>Unit-5B | MLT<br>KD<br>BK<br><br>SPD<br><br>BH<br>BK | 5<br>5<br>5<br><br>5<br><br>5<br>5 | CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH)<br><br>CC-6: COST ACCOUNTING-II (3.2 CH)<br><br>CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)<br>Unit 5: Company Accounts- Introduction<br><br>SEC-1 E-COMMERCE (3.4 CH) | Revision<br>Revision<br>Revision<br><br>Revision<br>Revision<br><br>Revision | BH<br>KD<br>MLT<br><br>MLT<br>KD<br><br>SPD      | 8<br>8<br>7<br><br>10<br>10<br><br>8       | CC-11: TAXATION-I (5.1 CH)<br><br>CC-12: AUDITING (5.2 CH)<br><br>DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)<br>Unit 5: Budget and Budgetary Control<br><br>OR<br>DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH)  | Revision<br>Revision<br>Revision<br><br>Revision<br>Revision<br><br>Revision | MLT<br>KD<br>SPD<br><br>KD<br>MLT<br><br>BK       | 7<br>7<br>7<br><br>7<br>7<br><br>10             |

|            |                                    |        |     |    |   |          |     |    |  |          |     |    |
|------------|------------------------------------|--------|-----|----|---|----------|-----|----|--|----------|-----|----|
|            |                                    |        |     |    | GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)                            | Revision | SPD | 8  | DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CH)<br>OR<br>DSE-2: ADVERTISING (5.4.2 CH) | Revision | BK  | 6  |
|            |                                    |        |     |    |   |          |     |    |  | Revision | BH  | 10 |
|            |                                    |        |     |    |   |          |     |    |  | Revision | SPD | 10 |
|            | <b>Sem-II (H)</b>                  |        |     |    | <b>Sem-IV (H)</b>   |          |     |    | <b>Sem-VI (H)</b>  |          |     |    |
| <b>Jan</b> | CC-3: COST ACCOUNTING-I (2.2 CH)   | Unit-1 | KD  | 10 | GE-4: INDIAN ECONOMY (4.1 CH)                                     | Unit-1   | BK  | 10 | CC-13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH)                             | Unit-1   | KD  | 10 |
|            |                                    | Unit2  | MLT | 10 |   |          |     |    |  | Unit-2   | MLT | 10 |
|            | CC-4: BUSINESS LAW (2.3 CH)        | Unit-1 | SPD | 10 | CC-8: FINANCIAL ACCOUNTING-III (4.2 CH)                           | Unit-1   | MLT | 10 | CC-14: TAXATION-II (6.2 CH)  | Unit-1   | MLT | 10 |
|            |                                    |        |     | 5  |   | Unit-2   | KD  | 10 | Unit 1   | Unit-2   | KD  | 15 |
|            | GE-2: BUSINESS STATISTICS (2.4 CH) | Unit-1 | BH  |    | CC-9: MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH) | Unit-1   | BH  | 10 | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH)                                     | Unit-1   | BK  | 10 |
|            |                                    | Unit2  | BK  |    |   | Unit-2   | SPD | 10 | OR   |          |     |    |
|            |                                    |        |     |    | SEC-2: ENTREPREURSHIP (4.4 CH)                                    | Unit-1   | BK  | 7  | DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH)                                  | Unit-1   | KD  | 10 |
|            |                                    |        |     |    | CC-10: CORPORATE LAWS (4.5 CH)                                    | Unit2    | SPD | 13 | Unit-2   | Unit-2   | MLT | 10 |
|            |                                    |        |     |    |   |          |     |    | DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)   | Unit1    | SPD | 10 |

|            |                                    |               |            |           |  |               |            |   |   |               |               |            |
|------------|------------------------------------|---------------|------------|-----------|--|---------------|------------|---|---|---------------|---------------|------------|
| <b>Feb</b> | CC-3: COST ACCOUNTING-I (2.2 CH)   | <b>Unit-1</b> | <b>KD</b>  | <b>10</b> | GE-4: INDIAN ECONOMY (4.1 CH)                                    | <b>Unit-2</b> | <b>BK</b>  | <b>10</b>                               | CC- 13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) | <b>Unit-2</b> | <b>MLT</b>    | <b>10</b>  |
|            |                                    | <b>Unit2</b>  | <b>MLT</b> | <b>10</b> |  |               |            |   |   |               | <b>Unit-1</b> | <b>KD</b>  |
|            | CC-4: BUSINESS LAW (2.3 CH)        | <b>Unit-1</b> | <b>SPD</b> | <b>10</b> | CC-8:FINANCIAL ACCOUNTING-III (4.2 CH)                           | <b>Unit3</b>  | <b>KD</b>  |   | CC-14: TAXATION-II (6.2 CH)                           | <b>Unit3</b>  | <b>KD</b>     | <b>10</b>  |
|            |                                    |               |            |           |  | <b>Unit-4</b> | <b>MLT</b> | <b>12</b>                               |   |               | <b>Unit-4</b> | <b>MLT</b> |
|            | GE-2: BUSINESS STATISTICS (2.4 CH) | <b>Unit-1</b> | <b>BH</b>  | <b>10</b> | CC-9:MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH) | <b>Unit-1</b> | <b>BH</b>  | <b>10</b>                               | Unit 2  |               |               |            |
|            |                                    | <b>Unit2</b>  | <b>BK</b>  | <b>10</b> | SEC-2: ENTREPEURSHIP (4.4 CH)                                    | <b>Unit2</b>  | <b>SPD</b> | <b>10</b>                               | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH)          | <b>Unit-2</b> | <b>BK</b>     | <b>15</b>  |
|            |                                    |               |            |           | CC-10: CORPORATE LAWS (4.5 CH)                                   | <b>Unit-2</b> | <b>SPD</b> | <b>13</b>                               | OR  |               |               |            |
|            |                                    |               |            |           |  |               |            |   | DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH)       | <b>Unit1</b>  | <b>KD</b>     | <b>10</b>  |
|            |                                    |               |            |           |  |               |            |   | Unit 2: Tax Management I                              | <b>Unit-2</b> | <b>MLT</b>    | <b>10</b>  |
|            |                                    |               |            |           |  |               |            |   | DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)              | <b>Unit-2</b> | <b>SPD</b>    | <b>15</b>  |
|            |                                    |               |            |           |  |               |            | Unit 2: Theories of International Trade |   |               |               |            |
| <b>Mar</b> | CC-3: COST ACCOUNTING-I (2.2 CH)   | <b>Unit-3</b> | <b>KD</b>  | <b>10</b> | GE-4: INDIAN ECONOMY (4.1 CH)                                    | <b>Unit-3</b> | <b>BK</b>  | <b>15</b>                               | CC- 13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) | <b>Unit-3</b> | <b>KD</b>     | <b>10</b>  |
|            |                                    | <b>Unit-4</b> | <b>MLT</b> | <b>10</b> |  |               |            |   |   |               | <b>MLT</b>    | <b>10</b>  |
|            | CC-4: BUSINESS LAW (2.3 CH)        | <b>Unit2</b>  | <b>SPD</b> | <b>10</b> |  |               |            |   | CC-14: TAXATION-II (6.2 CH)                           | <b>Unit-4</b> | <b>MLT</b>    | <b>10</b>  |
|            |                                    |               |            |           | CC-8:FINANCIAL ACCOUNTING-III (4.2 CH)                           | <b>Unit-3</b> | <b>KD</b>  | <b>10</b>                               |   | <b>Unit-5</b> | <b>KD</b>     | <b>10</b>  |
|            |                                    |               |            |           | <b>Unit-4</b>  | <b>MLT</b>    | <b>10</b>  |   |   |               |               |            |

|            |                                    |                  |           |          |   |  |                                |                              |  |  |                                |                             |
|------------|------------------------------------|------------------|-----------|----------|---|--|--------------------------------|------------------------------|--|--|--------------------------------|-----------------------------|
|            | GE-2: BUSINESS STATISTICS (2.4 CH) | Unit-3<br>Unit-4 | BK<br>BH  | 10<br>10 | CC-9:MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH)<br><br>SEC-2: ENTREPEURSHIP (4.4 CH)<br><br>CC-10: CORPORATE LAWS (4.5 CH) | Unit-3<br>Unit-4<br><br>Unit-3<br><br>Unit-3 | SPD<br>BH<br><br>BK<br><br>SPD | 10<br>10<br><br>10<br><br>10 | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH)<br><br>OR<br>DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH)<br>Unit 3: Tax Management II<br><br>DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)<br>Unit 3: International Organizations and Arrangements | Unit-3<br><br>Unit-3<br>Unit-4<br><br>Unit-3 | BK<br><br>KD<br>MLT<br><br>SPD | 8<br><br>10<br>10<br><br>15 |
| <b>Apr</b> | CC-3: COST ACCOUNTING-I (2.2 CH)   | Unit-4<br>Unit-3 | MLT<br>KD | 8<br>10  | GE-4: INDIAN ECONOMY (4.1 CH)   | Unit-4                                       | BK                             | 10                           | CC- 13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH)  | Unit-4<br>Unit-5                             | MLT<br>KD                      | 10<br>10                    |
|            | CC-4: BUSINESS LAW (2.3 CH)        | Unit-3           | SPD       | 10       | CC-8:FINANCIAL ACCOUNTING-III (4.2 CH)  | Unit-4<br>Unit-5                             | MLT<br>KD                      | 10<br>10                     | CC-14: TAXATION-II (6.2 CH)  | Unit-4<br>Unit-5                             | MLT<br>KD                      | 15<br>10                    |
|            | GE-2: BUSINESS STATISTICS (2.4 CH) | Unit-5<br>Unit-4 | BK<br>BH  | 10<br>10 | CC-9:MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH)  | Unit-5<br>Unit-4                             | SPD<br>BH                      | 10<br>10                     | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH)   | Unit-4                                       | BK                             | 10                          |



|            |  |                             |            |           |  |                                |                         |                        |   |                                |                         |                       |  |
|------------|--|-----------------------------|------------|-----------|--|--------------------------------|-------------------------|------------------------|---|--------------------------------|-------------------------|-----------------------|--|
|            |  |                             |            |           | SEC-2:<br>ENTREPEURSHIP (4.4<br>CH)  | <b>Unit-4</b>                  | <b>BK</b>               | <b>10</b>              | OR<br>DSE-3: TAX<br>PROCEDURES AND<br>MANAGEMENT (6.3.2<br>CH)    | <b>Unit-4</b><br><b>Unit-5</b> | <b>MLT</b><br><b>KD</b> | <b>7</b><br><b>10</b> |  |
|            |  |                             |            |           | CC-10: CORPORATE<br>LAWS (4.5 CH)  | <b>Unit-4</b>                  | <b>SPD</b>              | <b>7</b>               | DSE-4:<br>INTERNATIONAL<br>BUSINESS (6.4.1 CH)                    | <b>Unit-5</b>                  | <b>SPD</b>              | <b>10</b>             |  |
| <b>May</b> | CC-3: COST<br>ACCOUNTING-I (2.2<br>CH) | <b>Revision</b><br><b>n</b> | <b>KD</b>  | <b>3</b>  | GE-4: INDIAN<br>ECONOMY (4.1 CH)   | <b>Unit-4</b>                  | <b>BK</b>               | <b>10</b>              | CC- 13:<br>FUNDAMENTALS OF<br>FINANCIAL<br>MANAGEMENT (6.1<br>CH) | <b>Unit-4</b><br><b>Unit-5</b> | <b>MLT</b><br><b>KD</b> | <b>5</b><br><b>5</b>  |  |
|            |  | <b>Unit-5</b>               | <b>MLT</b> | <b>8</b>  | CC-8:FINANCIAL<br>ACCOUNTING-III (4.2<br>CH)                                 | <b>Unit-5</b><br><b>Unit-4</b> | <b>KD</b><br><b>MLT</b> | <b>10</b><br><b>10</b> | CC-14: TAXATION-II<br>(6.2 CH)                                    | <b>Unit-4</b><br><b>Unit-5</b> | <b>MLT</b><br><b>KD</b> | <b>8</b><br><b>8</b>  |  |
|            | CC-4: BUSINESS<br>LAW (2.3 CH)         | <b>Unit-4</b>               | <b>SPD</b> | <b>10</b> | CC-9:MARKETING<br>MANAGEMENT AND<br>HUMAN RESOURCE<br>MANAGEMENT (4.3<br>CH) | <b>Unit-5</b><br><b>Unit-4</b> | <b>SPD</b><br><b>BH</b> | <b>10</b><br><b>10</b> | DSE-3:<br>FUNDAMENTALS OF<br>INVESTMENT (6.3.1<br>CH)             | <b>Unit-5</b>                  | <b>BK</b>               | <b>7</b>              |  |
|            | GE-2: BUSINESS<br>STATISTICS (2.4 CH)  | <b>Unit-5</b>               | <b>BK</b>  | <b>10</b> | SEC-2:<br>ENTREPEURSHIP (4.4<br>CH)  | <b>Unit-5</b>                  | <b>BK</b>               | <b>10</b>              | OR<br>DSE-3: TAX<br>PROCEDURES AND<br>MANAGEMENT (6.3.2<br>CH)    | <b>Unit-4</b><br><b>Unit-5</b> | <b>MLT</b><br><b>KD</b> | <b>7</b><br><b>7</b>  |  |
|            |  | <b>Revision</b><br><b>n</b> | <b>BH</b>  | <b>3</b>  | CC-10: CORPORATE<br>LAWS (4.5 CH)  | <b>Unit-5</b>                  | <b>SPD</b>              | <b>10</b>              | DSE-4:<br>INTERNATIONAL<br>BUSINESS (6.4.1 CH)                    | <b>Unit-5</b>                  | <b>SPD</b>              | <b>7</b>              |  |
|            |  |                             |            |           |  |                                |                         | <b>6</b>               |   |                                |                         |                       |  |

|             |                                    |          |     |    |  |                      |           |        |   |                      |           |          |
|-------------|------------------------------------|----------|-----|----|--|----------------------|-----------|--------|---|----------------------|-----------|----------|
|             |                                    |          |     |    |  |                      |           | 13     |   |                      |           |          |
| <b>June</b> | CC-3: COST ACCOUNTING-I (2.2 CH)   | Unit-5   | MLT | 10 | GE-4: INDIAN ECONOMY (4.1 CH)                                    | Revision             | BK        | 5      | CC- 13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) | Revision<br>Revision | MLT<br>KD | 10<br>10 |
|             | CC-4: BUSINESS LAW (2.3 CH)        | Unit-5   | SPD | 12 | CC-8:FINANCIAL ACCOUNTING-III (4.2 CH)                           | Revision<br>Revision | KD<br>MLT | 5<br>5 | CC-14: TAXATION-II (6.2 CH)                           | Revision<br>Revision | KD<br>MLT | 5<br>5   |
|             | GE-2: BUSINESS STATISTICS (2.4 CH) | Revision | BH  | 5  | CC-9:MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH) | Revision             | KD<br>SPD | 5      | DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH)          | Revision             | BK        | 10       |
|             |                                    | Revision | BK  | 5  | SEC-2: ENTREPEURSHIP (4.4 CH)                                    | Revision             | BH        | 5      | OR<br>DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH) | Revision<br>Revision | KD<br>MLT | 10<br>10 |
|             |                                    |          |     |    | CC-10: CORPORATE LAWS (4.5 CH)                                   | Revision             | BK        | 5      | DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)              | Revision             | SPD       | 10       |
|             |                                    |          |     |    |  |                      | SPD       | 8      | Unit 5: Export Promotion Measures                     |                      |           |          |

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Prepared by



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**DEPARTMENT OF MICROBIOLOGY**

**TEACHING PLAN OF AMARNATH CHATTOPADHYAY**  
Microbiology (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (II)  | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|-------|---|----------------|---|----------------|---|----------------|
| Jul   | <b>Theory:</b><br><b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>Unit 2: Diversity of Microbial world  | 8              | <b>Theory</b><br><b>CC5: Microbial Physiology &amp; Metabolism</b><br>Unit 1: Microbial Growth and Effect of Environment on Microbial Growth  | 10             | <b>Theory</b><br><b>CC11: Industrial Microbiology</b><br>Unit 3: Types of fermentation processes, bio-reactors  | 10             |
|       | <b>Practical</b><br><b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>To study the principle and applications of instruments (autoclave, incubator, hot air oven, centrifugation, light microscope, pH meter) used in the microbiology laboratory | 4              | <b>Practical</b><br><b>CC5: Microbial Physiology &amp; Metabolism</b><br>Study of growth curve of <i>E. coli</i> by turbidometric method, standard plate count method, Direct count method by phase contrast microscopy | 6              | <b>Practical</b><br><b>CC11: Industrial Microbiology</b><br>Demonstration of different parts of a typical fermenter                                   | 4              |
|       |   |                | <b>Theory</b><br><b>SEC1: Microbial Diagnosis in Health Clinics</b><br>Unit 3 Direct Microscopic Examination and Culture  | 3              | <b>DSE1: Microbes in Sustainable Agriculture</b><br>Enumeration of bacterial load of barren and fertile soil  | 4              |
| Aug   | <b>Theory:</b><br><b>CC2: Bacteriology</b><br>Unit 2: Bacteriological Techniques  | 6              | <b>Theory</b><br><b>CC6: Cell Biology</b><br>Unit 2: Nucleus  | 8              | <b>Theory</b><br><b>CC12: Immunology</b><br>Unit 4: Antibodies<br>Unit 5: Major Histocompatibility Complex  | 8<br>4         |
|       | <b>Practical</b><br><b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>Preparation of culture media (Nutrient Broth and Nutrient Agar) for bacterial cultivation   | 2              | <b>Practical</b><br><b>CC5: Microbial Physiology &amp; Metabolism</b><br>Calculation of generation time and specific growth rate of bacteria from the graph plotted with the given data                                 | 2              | <b>Practical</b><br><b>CC12: Immunology</b><br>Total Leukocyte Count of the given blood sample  | 4              |
|       | Sterilization of medium using Autoclave and assessment for sterility  | 2              | <b>CC6: Cell Biology</b><br>Effect of temperature on growth of <i>E. coli</i>   | 2              | Differential Leukocyte Count of the given blood sample (demonstration)  | 4              |
|       |   |                | <b>Theory</b><br><b>SEC1: Microbial Diagnosis in Health Clinics</b><br>Unit 3 Direct Microscopic Examination and Culture  | 3              |   |                |
| Sept  | <b>Theory:</b><br><b>CC2: Bacteriology</b><br>Unit 2: Bacteriological Techniques  | 2              | <b>Theory</b><br><b>CC5: Microbial Physiology &amp; Metabolism</b><br>Unit 4: Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation   | 5              | <b>Theory</b><br><b>DSE2: Instrumentation and Biotechniques</b><br>Unit 2 Chromatography  | 10             |
|       | <b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>Unit 6: Protozoa  | 4              | <b>Practical</b><br><b>CC5: Microbial Physiology &amp; Metabolism</b><br>Determination of the thermal death point of <i>E. coli</i>   | 2              | <b>Practical</b><br><b>DSE1: Microbes in Sustainable Agriculture</b><br>Study soil profile (Water holding capacity, pH, total organic carbon content) | 6              |
|       | <b>Practical</b><br><b>CC1: Introduction to Microbiology and Microbial Diversity</b><br>Isolation and enumeration of bacteria from air, water and soil  | 6              | <b>CC6: Cell Biology</b><br>Study of a representative plant (epidermal cell of <i>Rhizo</i> sp.) and animal cell (squamous epithelial cell) by microscopy   | 4              | <b>CC11: Industrial Microbiology</b><br>Industry/Institute Visit  | 4              |
|       |   |                | <b>Theory</b><br><b>SEC1: Microbial Diagnosis in Health Clinics</b><br>Unit 6: Testing for Antibiotic Sensitivity in Bacteria   | 4              |   |                |

|     |   |   |  |   |   |   |
|-----|---|---|--|---|---|---|
| Oct | <b>Theory:</b><br>CC1: Introduction to Microbiology and Microbial Diversity<br>Unit 6: Protozoa   | 2 | <b>Theory</b><br>CC7: Molecular Biology<br>Unit 2: Replication of DNA (Prokaryotes and Eukaryotes)   | 5 | <b>Theory</b><br>DSE1: Microbes in Sustainable Agriculture<br>Unit 6 GM crops   | 6 |
|     | <b>Practical</b><br>CC2: Bacteriology<br>Estimation of CFU count by spread plate method/pour plate method   | 2 | <b>Practical</b><br>CC6: Cell Biology<br>Study of different stages of Mitosis from permanent slide   | 2 | <b>Practical</b><br>CC11: Industrial Microbiology<br>Microbial fermentations for the production and estimation (qualitative and quantitative) of : Alcohol: Ethanol | 4 |
| Nov | <b>Theory:</b><br>CC2: Bacteriology<br>Unit 5: Growth & Reproduction in Bacteria  | 6 | <b>Theory</b><br>CC7: Molecular Biology<br>Unit 2: Replication of DNA (Prokaryotes and Eukaryotes)<br>Unit 6: Regulation of gene Expression                        | 5 | <b>Theory</b><br>CC11: Industrial Microbiology<br>Unit 2: Isolation of industrially important microbial strains and fermentation media                              | 9 |
|     | <b>Practical</b><br>CC2: Bacteriology<br>Isolation of pure cultures of bacteria by streaking method<br>Preservation of bacterial cultures (slant /stab) | 2 | <b>Practical</b><br>CC7: Molecular Biology<br>Isolation of genomic DNA from <i>E. coli</i>   | 5 | <b>CC12: Immunology</b><br>Unit 8: Immunological Techniques   | 4 |
|     |   | 2 | <b>Theory</b><br>SEC1: Microbial Diagnosis in Health Clinics<br>Unit 4: Serological and Molecular Methods  | 3 | <b>Practical</b><br>DSE2: Instrumentation and Biotechniques<br>Separation of mixtures of amino acids and sugars by paper chromatography                             | 4 |
|     |   |   |  |   | Separation of mixtures of amino acids and sugars by thin layer chromatography   | 4 |
| Dec | <b>Theory:</b><br>CC2: Bacteriology<br>Unit 6: Bacterial Systematics<br>Special Classes, Doubt clearance  | 4 | <b>Theory</b><br>CC7: Molecular Biology<br>Unit 6: Regulation of gene Expression<br>Special classes for doubt clearance  | 2 | <b>Theory</b><br>CC12: Immunology<br>Unit 8: Immunological Techniques   | 2 |
|     |   | 1 |  | 2 | <b>DSE2: Instrumentation and Biotechniques</b><br>Unit 5 Centrifugation<br>Special Classes  | 6 |
|     | <b>Practical</b><br>CC2: Bacteriology<br>Motility by hanging drop method,<br>Practice Classes   | 2 | <b>Practical</b><br>CC7: Molecular Biology<br>Resolution and visualization of DNA by Agarose Gel Electrophoresis   | 5 | <b>Practical</b><br>DSE2: Instrumentation and Biotechniques<br>Demonstration of density gradient centrifugation with the help of pictures<br>Practice Classes       | 2 |
|     |   | 2 | <b>Theory</b><br>SEC1: Microbial Diagnosis in Health Clinics<br>Special classes for doubt clearance<br>Question Answer session                                     | 2 |   | 2 |
|     |   |   |  |   |   |   |
| Jan | <b>Sem-II (H)</b>   |   | <b>Sem-IV (H)</b>  |   | <b>Sem-VI (H)</b>   |   |
|     | <b>Theory</b><br>CC4: Virology<br>Unit 1: Nature & Properties of Viruses  | 6 | <b>Theory</b><br>CC8: Microbial Genetics<br>Unit 2: Plasmids<br>CC9: Environmental Microbiology<br>Unit 3: Biogeochemical Cycling                                  | 8 | <b>Theory</b><br>CC13: Medical Microbiology<br>Unit 4: Viral diseases<br>DSE4: Bio-safety and Intellectual Property Rights<br>Unit 2 : Biosafety Guidelines         | 8 |
|     | <b>Practical</b><br>CC4: Virology<br>Study of TMV infection on Tomato plant induced by TMV infected tobacco extract                                     | 4 | <b>Practical</b><br>CC8: Microbial Genetics<br>Preparation of master plates and replica Plates<br>Study of the effect of physical (UV) mutagens on bacterial cells | 4 | <b>Practical</b><br>CC13: Medical Microbiology<br>Study of bacterial flora of skin by swab method   | 6 |
|     |   |   |  | 2 |   | 2 |

|     |  |                     |  |                                   |  |                                       |
|-----|--|---------------------|--|-----------------------------------|--|---------------------------------------|
|     |  |                     | <b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Unit 1 Fermented Foods.  | 2                                 | <b>DSE3: Advances in Microbiology</b><br>Demonstration of PCR amplification of metagenomic DNA using universal 16S ribosomal gene primers  | 3                                     |
| Feb | <b>Theory</b><br><b>CC3: Biochemistry</b><br>Unit 3: Lipids<br><br><b>Practical</b><br><b>CC3: Biochemistry</b><br>Qualitative/Quantitative assay of amylase   | 8<br><br>4          | <b>Theory</b><br><b>CC9: Environmental Microbiology</b><br>Unit 3: Biogeochemical Cycling<br><b>CC10: Food and Dairy Microbiology</b><br>Unit 1: Foods as a substrate for microorganisms<br><br><b>Practical</b><br><b>CC9: Environmental Microbiology</b><br>Isolation of microbes (bacteria & fungi) from rhizosphere and rhizoplane<br><br><b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Unit 1 Fermented Foods.        | 6<br><br>6<br><br>4<br><br>2      | <b>Theory</b><br><b>CC14: Recombinant DNA Technology</b><br>Unit 1: Introduction to Genetic Engineering<br><b>DSE4: Bio-safety and Intellectual Property Rights</b><br>Unit 5: Patent<br><br><b>Practical</b><br><b>DSE3:</b><br>Demonstration of PCR amplification of metagenomic DNA using universal 16S ribosomal gene primers<br><b>CC14:</b><br>Designing of primers for DNA amplification  | 4<br><br>4<br><br>3<br><br>4          |
|     | <b>Theory</b><br><b>CC3: Biochemistry</b><br>Unit 4: Proteins<br><br><b>Practical</b><br><b>CC3: Biochemistry</b><br>Study the effect of temperature and pH on enzyme activity (amylase)                                       | 8<br><br>4          | <b>Theory</b><br><b>CC10: Food and Dairy Microbiology</b><br>Unit 4: Fermented foods (Probiotic)<br><b>CC8: Microbial Genetics</b><br>Unit 3: Mechanisms of Genetic Exchange<br><br><b>Practical</b><br><b>CC10: Food and Dairy Microbiology</b><br>MBRT of milk samples<br>Isolation of spoilage microorganisms from spoiled carrot<br><br><b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Unit 6 Probiotic Foods           | 2<br><br>6<br><br>4<br>4<br><br>2 | <b>Theory</b><br><b>DSE4: Bio-safety and Intellectual Property Rights</b><br>Unit 5: Patent<br><b>CC14: Recombinant DNA Technology</b><br>Unit4: DNA Amplification and DNA sequencing<br><br><b>Practical</b><br><b>CC14:</b><br>Interpretation of sequencing gel electrophoretograms<br><b>DSE4: Bio-safety and Intellectual Property Rights</b><br>Filing primary applications for patents   | 4<br><br>4<br><br>4                   |
| Apr | <b>Theory</b><br><b>CC3: Biochemistry</b><br>Unit 4: Proteins<br><b>CC4: Virology</b><br>Unit 4: Viruses & Cancer<br><br><b>Practical</b><br><b>CC4: Virology</b><br>Report writing:<br>Educational tour to Institute/Industry | 2<br><br>6<br><br>4 | <b>Theory</b><br><b>CC8: Microbial Genetics</b><br>Unit 3: Mechanisms of Genetic Exchange<br><b>CC9: Environmental Microbiology</b><br>Unit 5: Microbial Bioremediation<br><br><b>Practical</b><br><b>CC9: Environmental Microbiology</b><br>Analysis of soil - pH, moisture content, water holding capacity<br><br><b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Unit 6 Probiotic Foods<br>Unit 5 Fermented Meat and Fish | 4<br><br>4<br><br>6<br><br>3<br>3 | <b>Theory</b><br><b>CC14: Recombinant DNA Technology</b><br>Unit4: DNA Amplification and DNA sequencing<br><b>CC13: Medical Microbiology</b><br>Unit 5: Protozoan diseases<br><b>DSE3:</b><br>Unit 3 Molecular Basis of Host-Microbe Interactions<br><br><b>Practical</b><br><b>CC13: Medical Microbiology</b><br>Perform antibacterial sensitivity by Kirby-Bauer method<br><b>DSE4: Bio-safety and Intellectual Property Rights</b><br>Study of steps of a patenting process | 4<br><br>6<br><br>4<br><br>2<br><br>4 |

|      |   |            |   |                                       |  |                              |
|------|---|------------|---|---------------------------------------|--|------------------------------|
| May  | <b>Theory</b><br><b>CC4: Virology</b><br>Unit 6: Applications of Virology<br><br><b>Practical</b><br>Isolation and enumeration of bacteriophages (PFU) from water/sewage sample using double agar layer technique | 6<br><br>4 | <b>Theory</b><br><b>CC9: Environmental Microbiology</b><br>Unit 5: Microbial Bioremediation<br><b>CC10: Food and Dairy Microbiology</b><br>Unit 7: Rapid detection methods of food borne pathogens in foods<br><br><b>Practical</b><br><b>CC9: Environmental Microbiology</b><br>Isolation of <i>Rhizobium</i> from root nodules<br><br><b>CC10: Microbial Genetics</b><br>Demonstration of Bacterial Conjugation through audiovisual teaching aids<br><br><b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Unit 5 Fermented Meat and Fish | 4<br><br>6<br><br>2<br><br>2<br><br>3 | <b>Theory</b><br><b>DSE3:</b><br>Unit 3 Molecular Basis of Host-Microbe Interactions<br><b>CC14: Recombinant DNA Technology</b><br>Unit 5: Applications of Recombinant DNA Technology<br><br><b>Practical</b><br><b>CC13: Medical Microbiology</b><br>Identify bacteria ( <i>E. coli</i> , <i>Staphylococcus</i> , <i>Bacillus</i> ) using laboratory strains on the basis of cultural, morphological and biochemical characteristics: IMViC<br><b>DSE4: Bio-safety and Intellectual Property Rights</b><br>A case study | 8<br><br>2<br><br>4<br><br>6 |
|      | <b>Theory</b><br><b>CC3: Biochemistry &amp; CC4: Virology</b><br>Special class and Doubt Clearance<br><br><b>Practical</b><br>Practice Classes  | 4<br><br>4 | <b>Theory</b><br><b>CC10: Food and Dairy Microbiology</b><br>Unit 7: Rapid detection methods of food borne pathogens in foods<br>Special class and Doubt Clearance<br><br><b>Practical</b><br><b>CC10: Food and Dairy Microbiology</b><br>Demonstration of cultivation of edible mushroom ( <i>Pleurotus</i> sp)<br>Practice Classes<br><br><b>Theory</b><br><b>SEC2: Food fermentation Techniques</b><br>Special classes   | 2<br><br>4<br><br>2<br><br>2<br><br>2 | <b>Theory</b><br><b>CC14: Recombinant DNA Technology</b><br>Unit 5: Applications of Recombinant DNA Technology<br>Special classes, Question answer session, Doubt Clearance<br><br><b>Practical</b><br><b>CC13: Medical Microbiology</b><br>Study using permanent mounts: stages of malarial parasite in RBCs<br>Practice Classes  | 6<br><br>2<br><br>2<br><br>2 |
| June |   |            |   |                                       |  |                              |

*Aman Nath Chattopadhyay*

Signature of the Teacher  
 Department of Microbiology  
 Suri Vidyasagar College

# SURI VIDYASAGAR COLLEGE

## DEPARTMENT OF ARABIC

Teaching plan of Dr. MOHD MOATASIM

B.A. Arabic (Hons. & Genl.) session July 2020– June 2021

| Sem-I (Hons. & Genl)  | No. of Lecture   | Sem-III (Hons. & Genl)  | No. of Lecture  | Sem-V (Hons. & Genl)  | No. of Lecture  |
|---|--|---|---|---|---|
| CC1: Hist. of Arabic Lit.(from Pre-Islamic to Umayyad period), Gram. & Trans  | Total Classes=30   | CC5: Poetry (Pre-Islamic, Islamic & Umayyad period)<br>5: Selected Verses from Poetry of Al- Farazdaq.<br>6: Selected Verses from Poetry of Jarir   | Total Classes=20<br>10<br>10                                      | CC-11: Prose (Modern Period unit 1)<br>(5): Manhaj al-Anbiyā' fi al-islāh wa al-taqhyir (The method of Prophets to reform and change): Syed Abul Hasan Ali Nadwi  | Total Classes=10<br>10  |
| <b>Part B: Grammar &amp; Translation</b><br>(a) Words; Noun, Verb & Particles<br>(b) Number: Singular, Dual & Plural<br>(c) Definite & Indefinite Noun<br>(d) Gender; Masculine & Feminine<br>(e) Demonstrative Pronoun<br>(f) Relative Pronoun<br>(g) Personal Pronouns and Its Kinds<br>(h) Prepositions<br>(i) Interrogative words<br>(j) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb<br>(k) Simple Verbs (Mujarrad Verbs)<br>(l) Possessive compound (Genitive Construction)<br>(m)Noun and adjective<br>(n) Subject and Predicate (Nominative Sentences) | 2<br>4<br>1<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | CC-6: History of Arabic literature (Spain) gram. & trans.<br><b>Unit: B</b><br>1) Complex Verbs (Mazid Verbs) and its Stem-Forms<br>2) Features of Stem-Forms: If'āl, Taf'īl, Ifti'āl, Istif'āl, Mufā'ala<br>3) Semi-Defective Verbs; (Af'āl al-Muqāraba wa al-Rij'ā' wa al-Shuru' (Approximative, Hope and Inchoative verbs)<br>4) Defective Verbs<br>5) Plural and its kinds<br>6) Five objects                       | Total Classes=30<br>4<br>5<br>6<br>3<br>5<br>7                    | CC-12: Poetry (Modern Period unit 1)<br>4) Jamil wa Buthain: Zahāwī<br><br>DSE2: Elementary knowledge of Al-Quran & Al-Hadeeth Literature.<br><br><b>Al-Qur'an (Holy Qur'an)</b><br>1) Detailed History of revelation and compilation of Holy Qur'an (Tārikh Nuzul al-Qur'an wa Jao'uhu wa al-Ihtifaz bihi Mufassilan)<br>2) Tathir al-Qur'an al-Karim 'ala al-Lugha al-Arabiyya wa Hayāt al-Arab al-Ijtimā'iyyah (The impact of Holy Qur'an on Arabic Language and social life of Arabs)<br>3) Khulāsa al-Suwar al-Taliya wa al-Fikrah al-Ra'isiyya fiha (Conclusion and Central Ideas of the following Chapters): Al-Mā'ida, Al-Kahf, Al-Hujrāt<br>4) Ma'lumāt al-Qur'an (Knowledge of the Holy Qur'an):<br>a) Shān al-Nuzul, Surah Makkiya Madniyya, al-Mufassirun min al-Sahāba (RA)<br>b) Al-Istalahāt: al-Nasikh, al-Mansukh, al-Muhkam, al-Mutashābih, al-Tahrif | Total Classes=10<br>10<br><br><b>Total Classes=60</b><br><b>(30)</b><br>5<br>5<br>5<br>7<br>8 |
| CC-2: Arabic Prose (Islamic & Medieval) (Part-A)<br>d) Khutba al-Nabi (PBUH) fi Hajja al-Wadā' (The Last Sermon of the Prophet PBUH)  | Total Classes=10<br>10   | SEC1: Translation & Composition<br><b>Unit 1: Translation</b><br>1) Kinds of Sentences: Nominal, Verbal, Conditional, Structural, Subject and Predicate, Places where Subject comes first, Places where Predicate comes first<br>2) Exercises of Letter writing on different topics and Application writing in Arabic   | Total Classes=40<br>30<br>10                                      | <b>Al-Hadīth (Hadīth)</b><br>1) The Hadīth and its History of compilation and preservation in the following periods: Prophet's period, Umayyad period & Abbasid period<br>2) Life and work of following Muhaddithīn in the field of Hadīth: Imām Bukhārī, Imām Muslim, Imām Abu Da'ud, Imām Nasa'i, Imām Ibn-i-Māja, Imām Tirmidhi (RA)<br>3) History of publishing and teaching of Hadīth in India<br>4) Life and contribution of Abdul Haq Muhaddith Dehlawi and Shah Waliyullah Dehlawi in serving the field of Hadīth   | <b>(30)</b><br>6<br>14<br>5<br>5  |
| CC-1A: A. Hist. of Arabic Literature (from Pre- Islamic to Umayyad Period 500- 750 A. D.), Gram. & Translation<br><b>C: Grammar &amp; Translation</b><br>(a) Words; Noun, Verb & Particles<br>(b) Definite & indefinite Article<br>(c) Gender; Masculine & Feminine<br>(d) Number: Singular, Dual & Plural<br>(e) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb<br>(f) Simple Verbs (Mujarrad Verbs)<br>(g) Pronouns and Its Kinds<br>(h) Possessive compound (Genitive Construction)<br>(i) Subject and Predicate (Nominative Sentences)                       | Total Classes=30<br>3<br>2<br>1<br>4<br>9<br>2<br>4<br>2<br>3      | CC-1C: Prose (Islamic, Medieval & Modern Period)<br>5. Ahmad Amin: Al-din al-Sina'i (Artificial Religion)<br><br>SEC1: Grammar, translation & latter writing<br>a) Nominal Sentences, Verbal Sentences, Conditional Sentences, the particles that resembles verbs, Defective Verbs, Hāl and Dhū al-Hāl (Adjective of Condition), Adverb of Clarification<br>b) Letter Writing (Official, Educational, Personal and etc. | Total Classes=12<br>12<br><br><b>Total Classes=40</b><br>25<br>15 | SEC3: Specific literary feature of modern Arabic Literature<br><br>DSE-1A: Rhetoric & Prosody:<br>b) Prosody and its kinds  | <b>Total Classes=30</b><br>30   |



| Sem-II (Hons. & Genl)   |                  | Sem-IV (Hons. & Genl)  |                  | Sem-VI (Hons. & Genl)                                       | No. of Lecture   |
|---|------------------|--|------------------|---|------------------|
| CC-3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.), Gram. & Translation   | Total Classes=30 | CC-8: Poetry (Abbasid & Fatimid)   | Total Classes=15 | CC-13: Prose (Modern Period Unit -II)                       | Total Classes=10 |
| B. Grammar & Translation  |                  | a) Abul Alā Ma'rri: Ala Fi Sabīl al-Majd Mā Ana Fā'il  | 15               | 2) Accident: Naguib Mahfouz                                 | 10               |
| (a) Intransitive and Transitive Verbs   | 5                | CC-9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation                         | Total Classes=30 | CC-14: Poetry (Modern Period Unit -II)                      | Total Classes=15 |
| (b) The Particles which introduce the verb in jussive case  | 2                | 2: Grammar based Translation on the prescribed items.  |                  | 3) Lap of Mother: Rashid Salim al-Khoury                    | 15               |
| (c) The Particles which introduce the verb in accusative case   | 2                | c) Hāl and Dhū al-Hāl (Adjective of Condition)   | 4                | DSE-4: Translation, Essay Writing, Terminology & Vocabulary | Total Classes=60 |
| (d) Infinitive (Gerund) and derivative nouns: Active Participle, Passive Participle, Locative noun, utilitarian noun, comparative and superlative, hyperbolic participle and resembling participle, | 13               | d) Adverb of Clarification   | 4                | A) Grammar & Translation:                                   |                  |
| (e) Case: Nominative, Accusative & Genitive   | 1                | e) Declinable and indeclinable   | 4                | 1) Number and countable Noun                                | 18               |
| (f) The particles that resembles verbs  | 3                | f) Diptotes  | 8                | 2) Exclusion mustathnā mustathnā minhu                      | 9                |
| (g) Defective verbs   | 4                | g) Conditional particles   | 6                | 3) The followers  | 8                |
| CC-4: Arabic Prose (Islamic & Medieval) (Part-B)  | Total Classes=20 | h) Categorical negative lā   | 4                | B) Essay Writing in Arabic (Narrative & Descriptive Types)  | 15               |
| d) Baina Qādin Waqur wa Dhubābin Jasur (Between a dignified judge and daring fly)   | 10               | CC-10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups                             | Total Classes=12 | C) Terminology & Vocabulary                                 | 10               |
| e) Ash'ab wa al-Bakhīl (Ash'ab and the miser)   | 10               | C: Essay Writing in Educational, Social, Political & Scientific aspects  | 12               |   |                  |
| CC-1B: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.), Grammar & Translation   | Total Classes=30 | SEC2: Translation & Interpretation (from English into Arabic & vice versa from Newspapers) & Communicative Skill:        | Total Classes=40 |   |                  |
| (a) The Particles which introduce the verb in jussive case  | 3                | 1) Translation from Arabic and English Newspaper: Scientific, Political, Social and economic                             | 25               |   |                  |
| (b) The Particles which introduce the verb in accusative case   | 3                | 2) Conversation and speech in Arabic language on any scientific topic  | 15               |   |                  |
| (c) Demonstrative Pronoun   | 4                | CC1D: Poetry: (Islamic, medieval, & Modern Period)   | Total Classes=20 |   |                  |
| (d) Relative Pronoun  | 4                | 1) Hafiz Ibrahim: Condition of Arabic Language   | 10               |   |                  |
| (e) Active Participle, Passive Participle, Noun and adjective   | 6                | 6: Abul Alā Ma'rri: Ala Fi Sabīl al-Majd   | 10               |   |                  |
| (f) Case: Nominative, Accusative & Genitive   | 2                | SEC2: Grammar, translation & latter writing  | Total Classes=40 |   |                  |
| (g) Prepositions  | 2                | a)   |                  |   |                  |
| (h) Interrogative particles   | 3                | 1) Exclusion   | 7                |   |                  |
| (i) Conditional particles   | 3                | 2) Categorical negative lā   | 5                |   |                  |
|   |                  | 3) Features of Stem-Forms: If'āl, Taf'il, Istif'āl, Mufā'ala & Ifti'āl   | 13               |   |                  |
|   |                  | b) Essay Writing: Visit of the popular city, popular Library, and zoo and article on personality whom you like very much | 15               |   |                  |



## **Teaching plan (Even Sem) – 2020-21**

**Semester – II**

**History Honours**

**Paper – CC- III (Core Course)**

**History Of India- III (600 –1206 AD)**

**Name of the Teacher - Prof. Nivedita Chakraborty**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Jan., 2021**

I. Studying Early Medieval India Historical Geography – Sources: texts, epigraphic and numismatic data Debates on Indian feudalism, rise of the Rajputs and the nature of the state

**Feb., 2021**

II. Political Structures Evolution of political structures: North India- Harsha, Sasanka, Pala, Sena and Pratiharas, Rise of Rajputs Evolution of political structures: South India –Chalukyas of Badami, Rashtrakutas, Cholas. Legitimization of kingship; brahmanas and temples; royal genealogies and rituals

**March., 2021**

III. Arrival of Islam in India Arab conquest of Sindh: nature and impact of the new set-up; Causes and consequences of early Turkish invasions: Mahmud of Ghazni; Shahab-ud-Din of Ghur

**April., 2021**

IV. Agrarian Structure and Social Change Land grants; Agricultural expansion; the feudal debate  
Proliferation of castes; status of untouchables

**May 2021**

V. Trade and Commerce Inter-regional trade Maritime trade Forms of exchange Process of urbanization and de urbanization Merchant guilds of South India

**June 2021**

VI. Religious and Cultural Developments Bhakti, Tantricism, Puranic traditions; Buddhism and Jainism; Popular religious cults Islamic intellectual traditions: Al-Biruni; Al-Hujwiri Regional languages and literature Art and architecture: Evolution of regional styles

**History Honours, Sem –II**

**Paper – CC- IV (Core Course)**

**Social Formation and Cultural Pattern of the Medieval World**

**Name of the Teacher - Dr. Asim Chaudhuri**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Jan. 2021**

I. Roman Republic Its Significance, Constitution, Law, & Society, Agrarian economy, urbanization & trade-Economy Growth of Slavery & slave society in ancient Rome

**Feb., 2021**

II. Religion, culture, literature and Philosophy in ancient Rome

**March, 2021**

III. Crises of the Roman Empire & transition to Participate

**April, 2021**

IV. Economic developments in Europe (7th to 14th centuries) Feudalism, Organization of production, towns and trade, technological developments. Crisis of feudalism.

**May, 2021**

V. Religion and culture in medieval Europe

**June 2021**

VI. Societies in Central Islamic Lands The tribal background, ummah, Caliphate state; rise of Sultanates Religious developments: the origins of shariah, Mihna, Sufism Urbanization and trade

**Semester – II**

**History General**

**Paper – CC- I B / GE- II (Core Cours)**

**History of India – II (300 to 1206 CE)**

**Name of the Teacher- Prof. Nivedita Chakraborty**

**6 Credits, Total Marks 75 (60+15) Total – 60 Lectures**

**Jan. 2021**

I. The Rise & Growth of the Guptas Administration, Society, Economy, Religion, Art, Literature, and Science & Technology.

**Feb., 2021**

II. Harsha & His Times Harsha's Kingdom, Sasanka, Administration, Buddhism & Nalanda

**March, 2021**

III. Towards Early Medieval: North India - Palas, Senas, Pratiharas and the rise of Rajputs

**April, 2021**

IV. Towards Early Medieval: South India Chalukyas, Pallavas, Rashtrakutas, and the Cholas

**May, 2021**

V. Society, Economy and Culture in Early Medieval: The Feudalism debate Changes in Society, Economy and Culture

**June, 2021**

VI. Arrival of Islam in India Arab conquest of Sindh Struggle for power in Northern India & establishment of Sultanate.

**Semester - IV  
History Honours  
Paper – CC- VIII (Core Course)  
RISE OF THE MODERN WEST II (17th& 18th centuries)  
Name of the Teacher -  
6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Jan., 2021**

I. 17th century European crisis: economic, social and political dimensions

**Feb., 2021**

II. The English Revolution: major issues; political and intellectual currents

**Match, 2021**

III. Rise of modern science in relation to European society from the Renaissance to the 17th century

**April, 2021**

IV. Mercantilism and European economics; 17th and 18th centuries

V. European politics in the 18th century: parliamentary monarchy; Patterns of Absolutism in Europe

**May, 2021**

VI. Prelude to the Industrial Revolution

**Semester - IV  
History Honours  
Paper – CC- IX (Core Course)  
HISTORY OF INDIA- V (c. 1758- 1857)  
6 Credits, Total marks 75 (60 + 15) Total – 60 Lectures**

**Jan., 2021**

I. Foundations of Company's Rule Early contestations between the Dutch, French and the British East India Company Bengal Nawabs and the battle of Plassey, Buxar and the grant of Dewani, Anglo Mysore; Anglo Maratha and Anglo Sikh relations. The Subsidiary alliance and the Doctrine of Lapse.

Feb., 2021

II. Legitimization of Company's rule in India Regulating Act; Pitt's India Act; Charter Acts of 1813, 1833 and 1853 Administrative, Military, Police and Educational Reforms

March, 2021

III. Rural Economy and Society Land revenue systems- Permanent settlement, Rayatwari and Mahalwari Commercialization of agriculture and indebtedness. Rural society: change and continuity, Famines.

April, 2021

IV. Trade and Industry , De industrialization , Trade and fiscal policy , Drain of Wealth Growth of modern industry

V. Renaissance and Reforms Bengal Renaissance and Socio-religious Reforms: Rammohan Roy (Brahma Samaj), Young Bengal, Vidyasagar and Others Educational Reforms initiated by the Company

May, 2021

VI. Popular Resistance Santhal uprising (1856-57); Sanyasi Uprising, Kol Bhumij uprising, Wahabi Faraizi and Santhal Uprising Revolt of 1857: causes and nature

**Semester - IV**

**History Honours**

**Paper – CC- X (Core Course)**

**HISTORY OF INDIA (1858-1964)**

**6 Credits, Total marks 75 (60 + 15) Total – 60 Lectures**

Jan., 2021

I. The aftermath of 1857 Queen's Proclamation; The Indigo rebellion, The Deccan Riots, The growth of the new middle class; The age of associations, The Aligarh movement, The Arya and the Prarthana Samaj

Feb., 2021

II. The early phase of Indian Freedom Movement Historiography of Indian Nationalism; Birth of Indian National Congress, The Moderates and the Extremists, Partition of Bengal, the Swadeshi movement, Muslim League, Morle Minto Reforms; Revolutionaries in India and abroad, the Lucknow pact

March, 2021

III. The Gandhian era Gandhi's rise to power, Rowlatt Satyagraha, Montagu Chelmsford reforms;

Khilafat and Non-co-operation movement, The Swarajya party, Poona Pact, Civil Disobedience Movement, Quit India Movement;

April, 2021

IV. Towards freedom Government of India Act 1935, The rise of the leftist movements, The Peasant and Working class movements, Cripps Mission, Subhas Bose and INA, RIN mutiny; Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements;

May, 2021

V. Communal Politics Demand for Pakistan; Lahore session of the Muslim League, rise of Hindu Mahasabha and the RSS; Akali Dal, Partition and its consequences.

June, 2021

VI. The Nehru era Internal policy between 1947 to 1964- movements for social justice, the new constitution, integration of the princely states, growth of parliamentary democracy, five years plan; India's foreign policy – Non alignment, India's relation with her neighbours.

**Semester - IV  
History Honours**

**Paper – SEC-II (Skill Enhancement Course)**

**Art Appreciation: An Understanding to Indian Art**

**40 Lectures, 2 Credits, Total marks – 50**

*The purpose of this course is to introduce students to Indian art, from ancient to contemporary times, in order to understand and appreciate its diversity and its aesthetic richness. The course will equip students with the abilities to understand art as a medium of cultural expression. It will give students direct exposure to Indian art through visuals, and visits to sites and museums.*

Jan., 2021

I. Prehistoric and protohistoric art: Rock art; Harappan arts and crafts

Feb., 2021

II. Indian art (c. 600 BCE – 600 CE): World Heritage Site Managers, UNESCO World Heritage Manuals [can be downloaded/ accessed at [www.unesco.org](http://www.unesco.org)] Notions of art and craft\_ Canons of Indian paintings\_ Major developments in stupa, cave, and temple art and architecture Early Indian sculpture: style and iconography\_ Numismatic art

March, 2021

III. Indian Art (c. 600 CE – 1200 CE) : Temple forms and their architectural features Early illustrated manuscripts and mural painting traditions Early medieval sculpture: style and iconography, Indian bronzes or metal icons

April, 2021

IV. Indian art and architecture (c. 1200 CE – 1800 CE) : Sultanate and Mughal architecture, Miniature painting traditions: Mughal, Rajasthani, Pahari Introduction to fort, palace and haveli Architecture

May, 2021

V. Modern and Contemporary Indian art and Architecture: The Colonial Period- Art movements: Bengal School of Art, Progressive Artists Group, etc. Major artists and their artworks\_ Popular art forms (folk art traditions)

**Semester – IV**

**History General**

**Paper – CC- ID / GE- IV (Core Course)**

**HISTORY OF INDIA- IV (FROM 1707 – 1950 AD)**

**Core Courses Paper – I D 6, Credits, 60 Lectures, Total Marks 75 (60+15)**

Jan., 2021

I. Regional States and rise of the Company's rule Bengal – Battle of Plassey, Buxar and Dewani  
Marathas and Anglo Maratha relation Mysore and Anglo Mysore relation Anglo Sikh relations

Feb., 2021

II. Land Settlements, peasant and Tribal revolts upto 1857 Permanent settlement and Rayatwari  
Tribal and Peasant revolts- Wahabi, Fairazi and Santal

March, 2021

III. Socio- Religious Reform Movements in the 19th Century Rammohan Roy, Young Bengal,  
Vidyasagar, AryaSamaj, Growth of a new middle class

April, 2021

IV. 1857 and its aftermath Causes and nature of the 1857 Age of associations and the birth of INC

V. Indian National Movement Moderates and Extremists Partition of Bengal and the Swadeshi  
movement Rise of Gandhi in Indian politics and Gandhian movements. Leftist movements Subhash  
Chandra Bose and the INA

May, 2021

VI. Partition Of India and the establishment of Indian Republic Government Of India Act 1935

Cripps Mission, Wavell Plan, Cabinet Mission Communal Politics Partition of India Constituent  
Assembly and the birth of the Republic

**Sem – IV**

**History General**

**Paper – SEC- II (Skill Enhancement Courses)**

**Understanding Heritage**

**40 Lectures, 2 Credits, Total marks – 50**

*This course will enable students to understand the different facets of heritage and their*

*significance. It highlights the legal and institutional frameworks for heritage protection in India as also the challenges facing it. The implications of the rapidly changing interface between heritage and history will also be examined. The course will be strongly project-based and will require visits to sites and monuments. At least two Projects will be based on visits to Museums/Heritage Sites.*

**Jan, 2021**

I. Defining Heritage Meaning of 'antiquity', 'archaeological site', 'tangible heritage', 'intangible heritage' and 'art treasure'

**Feb., 2021**

II. Evolution of Heritage Legislation and the Institutional Framework: Conventions and Acts—national and international Heritage-related government departments, museums, regulatory bodies etc. Conservation Initiatives

**March, 2021**

III. Challenges facing Tangible and Intangible Heritage Development, antiquity smuggling, conflict (to be examined through specific case studies)

**April, 2021**

IV. Challenges facing Tangible and Intangible Heritage: Development, antiquity smuggling, conflict (to be examined through specific case studies)

**May, 2021**

V. Heritage and Travel: Viewing Heritage Sites, The relationship between cultural heritage, landscape and travel recent trends



**Semester – VI**

**History Honours Paper – CC- XIII (Core Course)**

**HISTORY OF MODERN EUROPE II (1871 – 1945)**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Jan., 2021**

I. Imperial Expansion: Bismarck's diplomacy and the new balance of power; Kaiser William II and Welt Politik; new course in German foreign policy; the eastern question of the late 19th century, Balkan wars

**Feb., 2021**

II. First World War and its aftermath: Outbreak of the First World War, emergence of the two armed camps; impact of the first world; the Russian revolution, the peace settlements of 1919, the League of nations.

**March, 2021**

III. Challenges to the new European order: Consolidation and Development of power of the Soviet State, French search for security, Rise of Fascism in Italy and Nazism in Germany, World Economic depression of 1929, the Crisis of the Inter War European Order

**April, 2021**

IV. The Road to 2nd World War; Germany's aggressive foreign policy; the role of the war economy, Spanish civil war, Mussolini's foreign policy and Abyssinian crisis, formation of the Rome Berlin Tokyo Axis;

V. Second World War: Outbreak of the 2nd World War and its impact

**May, 2021**

VI. United Nations Organization: its origin and functions

**Sem – VI**

**History Honours Paper – CC- XIV (Core Course)**

**MAKING OF THE CONTEMPORARY WORLD (1946-2000)**

**16 Credits, Total marks, 75 (60 + 15) Total – 60 Lectures**

**Jan., 2022**

I. Post War Development a. An overview of post-war developments Social, Political and Economic b. Cold war Politics- ideological clash & power rivalry between super powers c. Military and Defense Alliances and Peace Pacts - Containment of Communism- Marshal Plan Truman Doctrine- Warsaw Pact- Military Alliances-NATO; SEATO- Bagdad Pact- Cominform, Berlin after 1945- Fall of the Berlin Wall & German Re-Unification

Feb., 2021

- II. Decolonization and the emergence of the Third world --a. National Movements in Asia & Africa  
b. Emergence of the Third World; Non –alignment c. Third World Organizations-OPEC, ASEAN, SAARC

March, 2021

- III. Cold War Escalates a. War in Korea, Cuban missile crisis, Vietnam problem b. Palestine Problem; Suez Crisis, Iran- Iraq conflicts, Gulf War c. Arab- Israel wars- activities of the PLO, Afghan Problem

April, 2021

- IV. Perspectives on Development and under development a. Globalization & its impact on the Third World b. Liberalization & its impact on Indian economy; Multinational Companies, World Bank, IMF  
c. Information Revolution

- V. Modernity and cultural transformation Emerging trends in culture, Media and consumption; Information Revolution

May, 2021

- VI. Changing World --a. Collapse of Soviet Bloc; Process of disintegrations, Glasnost and Perestroika,  
b. American Uni-polarism; USA as a global policeman c. Current threats confronting the World -  
Ethnic Clashes & Cross border Terrorism.

**Sem – VI**

**History Honours Paper – DSE- III (Discipline Specific Elective)**

**History of Modern East Asia-1 (1840-1919)**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

Jan., 2021

- I. Pre-colonial China -- [a] Nature and structure of the traditional Chinese society. [b] The peasantry and gentry; Government bureaucracy and central control. [c] The Confucian value system. [d] China's pre-modern economy.

Feb., 2021

- II. Anglo Chinese relations till the Opium War [a] The Tribute system; the Canton trade and its collapse. [b] First & Second Opium Wars—the unequal treaties. [c] Financial Imperialism: Open Door policy.

March, 2021

- III. Rebellion, Restoration and Nationalism - [a] The Taiping Rebellion: causes, nature and failure. [b] Tung- Chih Restoration; the Hundred Days' Reform and the Self –Strengthening Movement. [c] Boxer Uprising : causes, nature and failure. [d]The Revolution of 1911: background and causes,

nature and significance; role of Dr Sun YatSen; principles and polities, formation of the Republic; Yuan Shih-kai and warlordism; the rise of the Kuomintang.

April, 2021

IV. Pre-Meiji Japan [a] Tokugawa Shogunate: the feudal society and the government; Shintoism. [b] Economic condition. c) Encounter with the West: the Perry Mission; the opening of the Japan to the west. [d] The crisis and fall of the Shogunate

V. Meiji Restoration - [a] Causes and nature of Restoration. [b] Transformation of Japan: process of modernization. [c] Meiji Constitution.

May, 2021

VI. Expansion of Japan up to the First World war [a] Sino-Japanese war (1894-95). [b] The Anglo-Japanese Alliance (1902). [c] Contest for Korea and the Russo-Japanese war (1904-05) [d] Japan and the First World War.

Sem – VI

**History Honours Paper – DSE- IV (Discipline Specific Elective)**

**History of China and Japan (1919-1939)**

**6 Credits, Total 75 marks (60 + 15) Total Lectures – 60**

Jan., 2021

I. Nationalism in China [a] Emergence of the Republic and Yuan Shih Kai: Warlordism. [b] May 4th Movement: origin, nature and significance.

Feb., 2021

II. The Kuomintang and the Nationalist government [a] The rise of the Kuomintang Party: Political crisis in the 1920s; The First United Front [b] Chiang Kai-shek: the KMT-CCP conflict. [c] Ten Years of Nanking Government.

March, 2021

III. The Communist Victory in China [a] Background of the foundation of the Communist Party. [b] CCP under Mao Tse-tung: the making of the Red Army; the Second United Front; Long March. [c] The Yen-an experiment; [d] The Chinese Revolution (1949): Ideology, causes and significance; the establishment of the Peoples' Republic of China.

**April, 2021**

IV. Rise of modern Japan - [a] Process of modernization: social, military, political and educational; popular and democratic movement; [b] Rise of Political Parties, abolition of feudalism and economic growth. [c] Industrialization and the role of the state; the Zaibatsu.

V. Imperial Japan [a] Japan and World war I: Twenty-one Demands. [b] Washington Conference. [c] Manchurian crisis: role of the League of Nations. [d] Failure of the Democratic system and the rise of militarism in the 1930s and the 1940s.

**May, 2021**

VI. Japan and World War II [a] Japan's bid for supremacy and defeat. [b] Post war Japan under General Douglas MacArthur.

**Semester – VI  
History General**

**Paper – DSE IIA (Discipline Specific Elective)**

**SOME ASPECTS OF EUROPEAN HISTORY (1789-1939)**

**6 credits, Total 75 marks (60 + 15) Total – 60 Lectures**

**Jan., 2021**

1. The French Revolution a) France before 1789; Socio- Economic and Political background; Birth of new ideas Philosophers and Physiocrats b) Progress of the Revolution; The Constituent Assembly; The reign of Terror c) Impact of French Revolution on Europe

**Feb., 2021**

2) Napoleon Bonaparte and aftermath a) Rise of Napoleon b) Napoleonic reforms; Napoleon and Europe; Fall of Napoleon, c) Vienna Congress; The concert of Europe; Metternich system

**March, 2021**

3. The revolutions of 1830 and 1848 a) The Democratic and Nationalist Aspirations of Europe b) Causes, and Impact of July Revolution of 1830 c) The February revolution of 1848-50.

**April 2021**

4. Age of Nationalism a) The Crimean War; The Eastern Question; Turkey; Russia's ambition in the Balkans b) The second Empire in France and Louis Napoleon c. Unification of Italy & Germany

5. Europe between 1914-1939 a) Origin of the First World War; Role of different European Powers; Peace of Settlement of 1919; The League of Nations b) Political and Economic Disorder & Depression, Policy of Appeasement, Spanish Civil War; Munich Pact' Russo-German Non-Aggression Pact c) Rise of Fascism in Italy and Nazism in Germany

May, 2021

6. Second world war a) Origins b) Failure of disarmament and the League of Nations c) Responsibility of Hitler

### Sem-VI

#### History General

#### Paper – GE II (Generic Elective Paper)

#### Gender & Education in India

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2021

I. Historiographical Trends a. Pre-colonial historiographical trends in women's education b. colonial historiographical trends in women's education c. Post-colonial historiographical trends in women's education

Feb., 2021

II. Education in Early and Medieval Times a. Women's Education in Medieval times b. Regional trends of Women's education in pre-colonial India c. Instances of women's education, obstacles

March, 2021

III. Colonial Period a. Socio-religious reforms b. Role of Christian missionaries in spreading female education, recent debates c. Indigenous initiatives at women's education

April, 2021

IV. Role of Schools and Colleges in colonial and post-colonial period a. Girls School and Colleges, development towards co-education b. Expansion of infrastructural facilities in education c. Technical and vocational education for women

V. Contours of female literacy since 1950 a. Interrogating literacy for women b. Government policies and Schemes c. Disparities in Literacy: Region, Community, Social and Eco-factors

May, 2021

VI. Present Scenario a. Education as a tool of Empowerment

### Sem – VI

#### History General

#### Paper – SEC-IV (Skill Enhancement Courses)

#### Art Appreciation: An Understanding to Indian Art

2 Credits, Total marks – 50 Total – 40 Lectures

*The purpose of this course is to introduce students to Indian art, from ancient to contemporary times, in order to understand and appreciate its diversity and its aesthetic richness. The course will equip students with the abilities to understand art as a medium of cultural expression. It will give students direct exposure to Indian art through visuals, and visits to sites and museums.*

**Jan., 2021**

I. Prehistoric and protohistoric art: Rock art; Harappan arts and crafts

**Feb., 2021**

II. Indian art (c. 600 BCE – 600 CE): World Heritage Site Managers, UNESCO World Heritage Manuals [can be downloaded/ accessed at [www.unesco.org](http://www.unesco.org) Notions of art and craft, Canons of Indian paintings, Major developments in stupa, cave, and temple art and architecture Early Indian sculpture: style and iconography, Numismatic art

**March, 2021**

III. Indian Art (c. 600 CE – 1200 CE) : Temple forms and their architectural features, Early illustrated manuscripts and mural painting traditions Early medieval sculpture: style and iconography, Indian bronzes or metal icons .

**April, 2021**

IV. Indian art and architecture (c. 1200 CE – 1800 CE) : Sultanate and Mughal architecture, Miniature painting traditions: Mughal, Rajasthani, Pahari Introduction to fort, palace and haveli Architecture

**May, 2021**

V. Modern and Contemporary Indian art and Architecture: The Colonial Period, Art movements: Bengal School of Art, Progressive Artists Group, etc. Major artists and their artworks, Popular art forms (folk art traditions)

**DR. AMIYA GHOSH**  
**H.O.D., Dept. of History**  
**Suri Vidyasagar College**

**DEPARTMENT OF BOTANY  
SURI VIDYASAGAR COLLEGE**

**TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA**  
(Associate Professor)

Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V (G) | No. of Lecture |
|-------|---|----------------|---|----------------|-----------|----------------|
| Jul   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 2: Algae-<br/>General characteristics<br/>Practical(Generic:<br/>Zoology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection,<br/>mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genera: a.<br/>Pteridophytes:<br/><i>Lycopodium</i> (stem),<br/><i>Selaginella</i> (stem)</p>                                  | 2<br><br>2     | <p>Practical (Generic: Zoology Hons.)<br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>1. Study of meristems through permanent slides and photographs.</p>   | 2              | NIL       | NIL            |
| Aug   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 2: Algae-<br/>Ecology and<br/>distribution; Range<br/>of thallus<br/>organization and<br/>reproduction<br/>Practical(Generic:<br/>Zoology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection,<br/>mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genus: a.<br/>Pteridophytes: <i>Pteris</i><br/>(leaflet).</p> | 2<br><br>1     | <p>Practical (Generic: Zoology Hons.)<br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)</p>          | 2              | NIL       | NIL            |
| Sept  | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 2: Algae-<br/>Classification of<br/>algae<br/>Practical(Generic:<br/>Zoology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection,<br/>mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genera: a.<br/>Pteridophytes: b.<br/>Gymnosperms:<br/><i>Cycas</i> leaflet, <i>Pinus</i><br/>needle.</p>                   | 2<br><br>2     | <p>Practical (Generic: Zoology Hons.)<br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs</p> | 2              | NIL       | NIL            |
| Oct   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 2: Algae-</p>  | 2              | <p>Practical (Generic: Zoology Hons.)<br/>CCIC/GE-3: Plant Anatomy and Embryology</p>   |                | NIL       | NIL            |

|     |  |                       |  |                       |   |                       |
|-----|--|-----------------------|--|-----------------------|---|-----------------------|
|     | <p>Morphology and life-cycles of the following:<br/><i>Chlamydomonas</i>,<br/><i>Oedogonium</i></p> <p>Practical(Generic: Zoology Hons.)<br/>CCIA/GE-1: Biodiversity<br/>3. Identification of all above mentioned genera in theoretical syllabus from permanent slides</p> | 1                     | 8. Female gametophyte: <i>Polygonum</i> (monosporic) type of Embryo sac Development (Permanent slides/photographs).  | 2                     |   |                       |
| Nov | <p>Theory<br/>CCIA/GE-1: Biodiversity<br/>Unit 2: Algae- Morphology and life-cycles of the following: <i>Chara</i>, <i>Fucus</i></p> <p>Practical(Generic: Zoology Hons.)<br/>CCIA/GE-1: Biodiversity<br/>Revise Practical Class</p>                                       | 2<br><br>1            | Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Revise Practical Class  | 1                     | NIL   | NIL                   |
| Dec | <p>Theory<br/>CCIA/GE-1: Biodiversity<br/>Unit 2: Algae- Morphology and life-cycles of the following: <i>Polysiphonia</i>. Economic importance of algae</p> <p>Practical(Generic: Zoology Hons.)<br/>CCIA/GE-1: Biodiversity<br/>Revise Practical Class</p>                | 2<br><br>1            | Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Revise Practical Class  | 1                     | NIL   | NIL                   |
|     | <b>Sem-II (G)</b>  | <b>No. of Lecture</b> | <b>Sem-IV (G)</b>  | <b>No. of Lecture</b> | <b>Sem-VI (G)</b>   | <b>No. of Lecture</b> |
| Jan | <p>Practical (Generic: Zoology Hons.)<br/>CCIB/GE-2: Plant Ecology and Taxonomy<br/>1. Study and identification of the following families: Malvaceae, Rubiaceae,</p>   | 2                     | <p>Practical (Generic: Zoology Hons.)<br/>CCID/GE-4 Plant Physiology and Metabolism:<br/>5. To study the effect of light intensity and bicarbonate concentration on O<sub>2</sub> evolution in photosynthesis.</p> | 2                     | <p>Theory<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>Unit 4: Mutations and Chromosomal Aberrations<br/>Types of mutations, effects of physical &amp; chemical mutagens. Numerical chromosomal changes: Euploidy, Polyploidy and Aneuploidy; Structural chromosomal changes: Deletions, Duplications, Inversions &amp; Translocations.<br/>Practical<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>1. To study prokaryotic cells (bacteria), viruses, eukaryotic cells with the help of light and electron micrographs.</p> | 4<br><br>1            |
| Feb | <p>Practical (Generic: Zoology Hons.)<br/>CCIB/GE-2: Plant</p>   |                       | <p>Practical (Generic: Zoology Hons.)<br/>CCID/GE-4 Plant Physiology</p>   |                       | <p>Theory<br/>DSE-1B: Cell Biology,</p>   |                       |



|     |  |   |   |   |   |   |   |
|-----|--|---|---|---|---|---|---|
|     | <p><b>Ecology and Taxonomy</b></p> <p>1. Study and identification of the following families: <i>Caesalpinia</i>ceae</p>  | 2 | <p><b>and Metabolism:</b></p> <p>6. Comparison of the rate of respiration in any two parts of a plant.</p>                      | 2 | <p><b>Genetics and Molecular Biology</b></p> <p>Unit 6: Cell Membrane and Cell Wall The functions of membranes; Models of membrane structure; The fluidity of membranes; Membrane proteins and their functions; Carbohydrates in the membrane; Faces of the membranes; Selective permeability of the membranes; Cell wall.</p> <p><b>Practical</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>3. To study the structure of plant cell through temporary mounts.</p>  | 6 | 1 |
| Mar | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCIB/GE-2: Plant Ecology and Taxonomy</p> <p>3. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem,</p>            | 2 | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCID/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p> | 1 | <p><b>Theory</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>Unit 8: Genetic material</p> <p>DNA: Miescher to Watson and Crick- historic perspective, Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA, types of genetic material. DNA replication</p> <p>Prokaryotes and Eukaryotes : bidirectional replication, semi- conservative, semi discontinuous A priming, <math>\theta</math> theta mode of replication, replication of linear, ds- A, replicating the end of linear chromosome including replication enzymes.</p> <p><b>Practical</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>4. To study the structure of animal cells by temporary mounts-squamous epithelial cell</p> | 6 | 1 |
| Apr | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCIB/GE-2: Plant Ecology and Taxonomy</p> <p>3. Ecological adaptations of some species: Phyllode of <i>Acacia auriculiformis</i></p> | 2 | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCID/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p> | 1 | <p><b>Theory</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>Unit 9: Transcription (Prokaryotes and Eukaryotes)</p> <p>Types of structures of RNA (mRNA, tRNA, rRNA), RNA polymerase- various types; Translation (Prokaryotes and eukaryotes), genetic code.</p> <p><b>Practical</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>6. Study of plasmolysis and deplasmolysis on <i>Elodea</i> leaf.</p>   | 6 | 1 |
| May | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCIB/GE-2: Plant Ecology and Taxonomy</p>  |   | <p><b>Practical (Generic: Zoology Hons.)</b></p> <p>CCID/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p> | 1 | <p><b>Theory</b></p> <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b></p> <p>Unit 10: Regulation of gene</p>  | 6 |   |

|      |   |   |   |   |  |   |
|------|---|---|---|---|--|---|
|      | Revise Practical Class  | 1 |   |   | expression Prokaryotes Lac operon and Tryptophan operon , and in Eukaryotes<br>Practical<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>7. Measure the cell size (either length or breadth/diameter) by micrometry | 1 |
| June | Practical (Generic: Zoology Hons.)<br>CC1B/GE-2: Plant Ecology and Taxonomy<br>Revise Practical Class | 1 | Practical (Generic: Zoology Hons.)<br>CC1D/GE-4Plant Physiology and Metabolism:<br>Revise Practical Class | 1 | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Doubt clearing class<br>Practical<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Revise Practical Class  | 1 |

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**TEACHING PLAN OF DR. HEMANTA SAHA**  
(Assistant Professor)  
Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)  | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V (G) | No. of Lecture |
|-------|--|----------------|--|----------------|-----------|----------------|
| Jul   | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera:<br>a. Algae: <i>Noctoc</i> , <i>Oedogonium</i> , <i>Chara</i> .                                 | 3              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Unit 7: Embryo and endosperm-<br>Endosperm types<br>Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>3. Stem: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides).         | 2<br><br>2     | NIL       | NIL            |
| Aug   | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera:<br>b. Fungi: <i>Ascochelus</i> , <i>Puccinia</i> ( <i>Uredosorus</i> and <i>teleutosorus</i> ). | 3              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Unit 7: Embryo and endosperm-<br>structure and functions<br>Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>4. Root: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides). | 2<br><br>2     | NIL       | NIL            |
| Sept  | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera:<br>c. Bryophytes: <i>Riccia</i> , <i>Marchantia</i> and <i>Fusaria</i> .                        | 3              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Unit 7: Embryo and endosperm-<br>Dicot and monocot embryo<br>Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>5. Leaf: Dicot and Monocot leaf (only Permanent slides)   | 2<br><br>2     | NIL       | NIL            |
| Oct   | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>4. Microbiology: Sterilization techniques; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd  | 2              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Unit 7: Embryo and endosperm-<br>Embryo-endosperm relationship.<br>Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>6. Adaptive anatomy: Xerophyte ( <i>Neurium</i> leaf); Hydrophyte ( <i>Hydrilla</i> stem).                    | 2<br><br>2     | NIL       | NIL            |
| Nov   | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>Revised Practical class   | 1              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class<br>Practical (Generic: Zoology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).                                   | 1<br><br>2     | NIL       | NIL            |
| Dec   | Practical(Generic: Zoology Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>Revised Practical   | 1              | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class<br>Practical (Generic: Zoology   | 1              | NIL       | NIL            |

|     | class   |                   | Hons.)<br>CC1C/GE-3: Plant Anatomy<br>and Embryology<br>Revised Practical class   | 1                   |            |                   |
|-----|---|-------------------|---|---------------------|------------|-------------------|
|     | Sem-II (G)  | No. of<br>Lecture | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G) | No. of<br>Lecture |
| Jan | Practical (Generic:<br>Zoology Hons.)<br>CC1B/GE-2: Plant<br>Ecology and<br>Taxonomy<br>1. Study and<br>identification of the<br>following families:<br>Papilionaceae,<br>Apocynaceae,  | 4                 | Theory<br>CC1D/GE-4 Plant Physiology<br>and Metabolism:<br>Unit 1: Plant-water relations -<br>Importance of water<br>Practical (Bio General)<br>CC1D/GE-4Plant Physiology<br>and Metabolism:<br>5. To study the effect of light<br>intensity and bicarbonate<br>concentration on O <sub>2</sub> evolution in<br>photosynthesis.<br><br>Theory<br>SEC2: Medicinal Botany<br>Unit 2: Conservation of<br>endangered and endemic<br>medicinal plants. Definition:<br>endemic and endangered<br>medicinal plants | 2<br><br>2<br><br>2 | NIL        | NIL               |
| Feb | Practical (Generic:<br>Zoology Hons.)<br>CC1B/GE-2: Plant<br>Ecology and<br>Taxonomy<br>1. Study and<br>identification of the<br>following families:<br>Labiatae, Solanaceae.   | 4                 | Theory<br>CC1D/GE-4 Plant Physiology<br>and Metabolism:<br>Unit 1: Plant-water relations -<br>water potential and its<br>components<br>Practical (Bio General)<br>CC1D/GE-4Plant Physiology<br>and Metabolism:<br>6. Comparison of the rate of<br>respiration in any two parts of a<br>plant.<br><br>Theory<br>SEC2: Medicinal Botany<br>Unit 2: Conservation of<br>endangered and endemic<br>medicinal plants. Red list criteria;<br>in-situ conservation: Biosphere<br>reserves, sacred groves            | 2<br><br>2<br><br>2 | NIL        | NIL               |
| Mar | Practical (Generic:<br>Zoology Hons.)<br>CC1B/GE-2: Plant<br>Ecology and<br>Taxonomy<br>2. Mounting of a<br>properly dried and<br>pressed specimen of<br>any wild plant with<br>herbarium label (to<br>be submitted in the<br>record book). | 2                 | Theory<br>CC1D/GE-4 Plant Physiology<br>and Metabolism:<br>Unit 1: Plant-water relations -<br>Transpiration and its significance;<br>Practical (Bio General)<br>CC1D/GE-4Plant Physiology<br>and Metabolism:<br>Revise Practical Class<br>Theory<br>SEC2: Medicinal Botany<br>Unit 2: Conservation of<br>endangered and endemic<br>medicinal plants. National Parks;<br>ex-situ conservation: Botanic<br>Gardens, Ethnomedicinal plant<br>Gardens.  | 2<br><br>1<br><br>2 | NIL        | NIL               |
| Apr | Practical (Generic:<br>Zoology Hons.)<br>CC1B/GE-2: Plant<br>Ecology and<br>Taxonomy<br>3. Ecological<br>adaptations of some<br>species: Nerium leaf  | 2                 | Theory<br>CC1D/GE-4 Plant Physiology<br>and Metabolism:<br>Unit 1: Plant-water relations -<br>Root pressure and guttation<br>Practical (Bio General)<br>CC1D/GE-4Plant Physiology<br>and Metabolism:<br>Revise Practical Class<br>Theory<br>SEC2: Medicinal Botany<br>Unit 2: Conservation of   | 2<br><br>1<br><br>2 | NIL        | NIL               |

|      |  |   |  |                     |     |     |
|------|--|---|--|---------------------|-----|-----|
|      |  |   | endangered and endemic medicinal plants. Propagation of Medicinal Plants: Objectives of the nursery, its classification.   |                     |     |     |
| May  | 3. Ecological adaptations of some species: Fanda root  | 2 | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 8: Plant growth regulators - Discovery and physiological roles of auxins, gibberellins<br>Practical (Bio General)<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Revise Practical Class<br>Theory<br>SEC2: Medicinal Botany<br>Doubt clearing class       | 3<br><br>1<br><br>1 | NIL | NIL |
| June | Practical (Generic: Zoology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Revised Practical class | 1 | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 8: Plant growth regulators - Discovery and physiological roles of cytokinins, ABA, ethylene.<br>Practical (Bio General)<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Revise Practical Class<br>Theory<br>SEC2: Medicinal Botany<br>Doubt clearing class | 3<br><br>1<br><br>1 | NIL | NIL |

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**TEACHING PLAN OF DR. SANDIPAN CHATTERJEE**

(Assistant Professor)

Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)  | No. of Lecture                             | Sem-III (G)  | No. of Lecture  | Sem-V (G) | No. of Lecture |
|-------|--|--|--|---|-----------|----------------|
| Jul   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 3: Fungi-<br/>Introduction- General<br/>characteristics,<br/>ecology and<br/>significance<br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology<br/>Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where<br/>necessary),<br/>mounting,<br/>description, drawing<br/>and identification of<br/>the following genera:<br/>a. Algae: <i>Nostoc</i>,<br/><i>Oedogonium</i>, <i>Chara</i>.</p>  | 2<br><br><br><br><br><br><br><br><br><br>3 | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 3: Secondary Growth-<br/>Vascular cambium – structure<br/>and function, seasonal activity.<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>1. Study of meristems through<br/>permanent slides and<br/>photographs.<br/>Theory<br/>SEC1: Biofertilizers<br/>Unit 1: General account about the<br/>microbes used as biofertilizer –<br/><i>Rhizobium</i> –<br/>isolation, identification, mass<br/>multiplication, carrier based<br/>inoculants, Actinorrhizal<br/>symbiosis.</p>              | 4<br><br><br><br><br><br><br><br><br><br>2<br><br><br><br><br><br><br><br><br><br>4 | NIL       | NIL            |
| Aug   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 3: Fungi- range<br/>of thallus<br/>organization, cell<br/>wall composition,<br/>nutrition,<br/>reproduction and<br/>classification; True<br/>Fungi- General<br/>characteristics,<br/>ecology and<br/>significance<br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology<br/>Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where<br/>necessary),<br/>mounting,<br/>description, drawing<br/>and identification of<br/>the following genera:<br/>b. Fungi:<br/><i>Ascochoia</i>, <i>Puccinia</i><br/>(<i>Uredosorus</i> and<br/><i>teleutosorus</i>).</p> | 2<br><br><br><br><br><br><br><br><br><br>2 | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 3: Secondary Growth-<br/>Secondary growth in root and<br/>stem, Wood (heartwood and<br/>sapwood).<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>2. Tissues (parenchyma,<br/>collenchyma and sclerenchyma);<br/>Macerated xylary elements,<br/>Phloem (Permanent slides,<br/>photographs)<br/>Theory<br/>SEC1: Biofertilizers<br/>Unit 2: <i>Azospirillum</i>: isolation and<br/>mass multiplication – carrier<br/>based inoculant, associative effect<br/>of different microorganisms.</p> | 4<br><br><br><br><br><br><br><br><br><br>2<br><br><br><br><br><br><br><br><br><br>4 | NIL       | NIL            |
| Sept  | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 3: Fungi- life<br/>cycle of <i>Rhizopus</i><br/>(Zygomycota)<br/><i>Ascochoia</i>(Ascomyc<br/>ota)<br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology<br/>Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where<br/>necessary),<br/>mounting,</p>  | 2<br><br><br><br><br><br><br><br><br><br>3 | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 4: Adaptive and protective<br/>system-Epidermis, cuticle,<br/>stomata;<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>3. Stem: Monocot: <i>Zea mays</i>;<br/>Dicot: <i>Helianthus</i>; Secondary:<br/><i>Helianthus</i> (only Permanent<br/>slides)<br/>Theory<br/>SEC1: Biofertilizers<br/>Unit 2: <i>Azotobacter</i>:</p>   | 4<br><br><br><br><br><br><br><br><br><br>2<br><br><br><br><br><br><br><br><br><br>4 | NIL       | NIL            |

|     |  |                   |  |                   |            |                   |
|-----|--|-------------------|--|-------------------|------------|-------------------|
|     | description, drawing and identification of the following genera:<br>Bryophytes:<br><i>Riccia</i> , <i>Marchantia</i> and <i>Fanarua</i>  |                   | classification, characteristics –<br>crop response to <i>Azotobacter</i><br>inoculum, maintenance and mass<br>multiplication   |                   |            |                   |
| Oct | Theory<br>CCIA/GE-1:<br>Biodiversity<br>Unit 3: Fungi- life<br>cycle of <i>Puccinia</i> ,<br><i>Agaricus</i><br>(Basidiomycota),<br>Symbiotic<br>Associations-<br>Lichens: General<br>account, reproduction<br>and significance<br>Practical (Generic:<br>Physiology &<br>Microbiology<br>Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>4. Microbiology:<br>Sterilization<br>techniques.; Simple<br>staining of Bacteria<br>with methylene<br>blue/Carbol Fuchsin<br>-Curd | 2                 | Theory<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>Unit 4: Adaptive and protective<br>system- General account of<br>adaptations in xerophytes and<br>hydrophytes.<br>Practical (Generic: Physiology<br>& Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>4. Root: Monocot: <i>Zea mays</i> ,<br>Dicot: <i>Helianthus</i> , Secondary:<br><i>Helianthus</i> (only Permanent<br>slides)<br>Theory<br>SECI: Biofertilizers<br>Unit 3 Cyanobacteria (blue green<br>algae), <i>Azolla</i> and <i>Anabaena</i> azollae<br>association, nitrogen fixation,<br>factors affecting growth, blue<br>green algae and <i>Azolla</i> in rice<br>cultivation. | 4                 | NIL        | NIL               |
|     |  | 2                 |  | 4                 |            |                   |
| Nov | Theory<br>CCIA/GE-1:<br>Biodiversity<br>Unit 3: Fungi-<br>Mycorrhiza:<br>ectomycorrhiza and<br>endomycorrhiza and<br>their significance<br>Practical (Generic:<br>Physiology &<br>Microbiology<br>Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>Revise Practical<br>Class  | 3                 | Theory<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>Doubt clearing class<br>Practical (Generic: Physiology<br>& Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>5. Leaf: Dicot and Monocot leaf<br>(only Permanent slides)<br><br>Theory<br>SECI: Biofertilizers<br>Doubt clearing class  | 1                 | NIL        | NIL               |
|     |  | 1                 |  | 2                 |            |                   |
|     |  | 1                 |  | 1                 |            |                   |
| Dec | Theory<br>CCIA/GE-1:<br>Biodiversity<br>Doubt clearing class<br>Practical (Generic:<br>Physiology &<br>Microbiology<br>Hons.)<br>CCIA/GE-1:<br>Biodiversity<br>Revise Practical<br>Class   | 1                 | Theory<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>Doubt clearing class<br>Practical (Generic: Physiology<br>& Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy<br>and Embryology<br>Revise Practical Class<br>Theory<br>SECI: Biofertilizers<br>Doubt clearing class  | 1                 | NIL        | NIL               |
|     |  | 1                 |  | 1                 |            |                   |
| Jan | Sem-II (G)   | No. of<br>Lecture | Sem-IV (G)   | No. of<br>Lecture | Sem-VI (G) | No. of<br>Lecture |
|     | Practical (Generic:<br>Physiology &<br>Microbiology<br>Hons.)<br>CCIB/GE-2: Plant<br>Ecology and<br>Taxonomy<br>1. Study and<br>identification of the<br>following families:<br>Malvaceae,   | 2                 | Theory<br>CCID/GE-4 Plant Physiology<br>and Metabolism:<br>Unit 3: Translocation in phloem -<br>Composition of phloem sap,<br>girdling experiment<br>Practical (Generic: Physiology<br>& Microbiology Hons.)<br>CCID/GE-4 Plant Physiology<br>and Metabolism:<br>1. Determination of osmotic<br>potential of plant cell sap by<br>plasmolytic method.  | 3                 | NIL        | NIL               |
| Feb | Practical (Generic:  |                   | Theory   |                   | NIL        | NIL               |

|      |  |   |   |            |     |     |
|------|--|---|---|------------|-----|-----|
|      | Physiology & Microbiology (Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Rubiaceae,                                      | 2 | CCID/GE-4Plant Physiology and Metabolism:<br>Unit 3: Translocation in phloem - Pressure flow model; Phloem loading and unloading.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4Plant Physiology and Metabolism:<br>2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig | 3<br><br>2 |     |     |
| Mar  | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Caesalpinaceae               | 2 | Theory<br>CCID/GE-4Plant Physiology and Metabolism:<br>Unit 6: Enzymes - Structure and properties<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4Plant Physiology and Metabolism:<br>3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.   | 2<br><br>2 | NIL | NIL |
| Apr  | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>3. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem,            | 2 | Theory<br>CCID/GE-4Plant Physiology and Metabolism:<br>Unit 6: Enzymes - Mechanism of enzyme catalysis and enzyme inhibition.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4Plant Physiology and Metabolism:<br>Revise Practical Class  | 2<br><br>1 | NIL | NIL |
| May  | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>3. Ecological adaptations of some species: Phyllode of <i>Acacia auriculiformis</i> | 2 | Theory<br>CCID/GE-4Plant Physiology and Metabolism:<br>Unit 7: Nitrogen metabolism - Biological nitrogen fixation<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4Plant Physiology and Metabolism:<br>Revise Practical Class  | 2<br><br>1 | NIL | NIL |
| June | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Revise Practical Class  | 1 | Theory<br>CCID/GE-4Plant Physiology and Metabolism:<br>Unit 7: Nitrogen metabolism - Nitrate and ammonia assimilation.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4Plant Physiology and Metabolism:<br>Revise Practical Class   | 2<br><br>1 | NIL | NIL |

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**TEACHING PLAN OF DR. ANIRBAN PAUL**  
(Assistant Professor)  
Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)   | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V (G)   | No. of Lecture      |
|-------|---|----------------|--|----------------|---|---------------------|
| Jul   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 7: Gymnosperms-<br/>General characteristics,<br/>classification.<br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection, mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genera: a.<br/>Pteridophytes:<br/><i>Lycopodium</i> (stem),<br/><i>Selaginella</i> (stem)</p>                        | 2<br><br>2     | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 6: Pollination and<br/>fertilization Pollination<br/>mechanisms and adaptations;<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>6. Adaptive anatomy: Xerophyte<br/>(<i>Nerium</i> leaf); Hydrophyte<br/>(<i>Hydrilla</i> stem).</p>   | 4<br><br>2     | <p>Theory<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>Unit 8: Introduction to<br/>biotechnology- History,<br/>Derivation, aim and scope,<br/>Contribution of Indian<br/>Scientist<br/>Unit 9: Plant tissue culture -<br/>Micropropagation<br/>Practical<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>2.Familiarization with basic<br/>equipments in tissue culture.</p>            | 2<br><br>3<br><br>2 |
| Aug   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 7: Gymnosperms-<br/>morphology, anatomy<br/>and reproduction of<br/><i>Cycas</i><br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection, mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genus: a.<br/>Pteridophytes: <i>Pteris</i><br/>(leaflet).</p>  | 2<br><br>1     | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 6: Double fertilization;<br/>Seed-structure appendages and<br/>dispersal mechanisms.<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>7. Types of ovules: anatropous,<br/>orthotropous, circinotropous,<br/>amphitropous/ campylotropous –<br/>Through Permanent<br/>Slides/Photographs</p> | 4<br><br>2     | <p>Theory<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>Unit 9: Plant tissue culture -<br/>haploid production through<br/>androgenesis and<br/>gynogenesis; brief account of<br/>embryo&amp; endosperm culture<br/>with their applications<br/>Practical<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>3.Study through photographs:<br/>Anther culture, somatic<br/>embryogenesis</p> | 5<br><br>2          |
| Sept  | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 7: Gymnosperms-<br/>morphology, anatomy<br/>and reproduction of<br/><i>Cycas</i><br/>Practical (Generic:<br/>Physiology &amp;<br/>Microbiology Hons.)<br/>CCIA/GE-1:<br/>Biodiversity<br/>2. Dissection, mounting,<br/>description, drawing,<br/>labeling and<br/>identification of the<br/>following genera: a.<br/>Pteridophytes: b.<br/>Gymnosperms: <i>Cycas</i><br/>leaflet, <i>Pinus</i> needle.</p> | 2<br><br>2     | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/><br/>Unit 8: Apomixis and<br/>polyembryony- Definition, types<br/>Practical (Generic: Physiology<br/>&amp; Microbiology Hons.)<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>8. Female gametophyte:<br/><i>Polygonum</i> (monosporic) type of<br/>Embryo sac Development<br/>(Permanent slides/photographs).</p>   | 4<br><br>2     | <p>Theory<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>Unit 10: Recombinant DNA<br/>Technique - Enzymes in<br/>Recombinant DNA<br/>Technology,<br/>Practical<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>3.Study through photographs:<br/>endosperm and embryo<br/>culture; micropropagation.</p>  | 5<br><br>2          |
| Oct   | <p>Theory<br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 7: Gymnosperms-<br/>morphology, anatomy<br/>and reproduction of</p>  | 2              | <p>Theory<br/>CCIC/GE-3: Plant Anatomy<br/>and Embryology<br/>Unit 8: Apomixis and<br/>polyembryony- practical<br/>applications.</p>   | 4              | <p>Theory<br/>DSE-1A: Economic Botany<br/>and Biotechnology<br/>Unit 10: Recombinant DNA<br/>Technique - cloning vector,<br/>DNA library, PCR,</p>  | 5                   |

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|-----|---|-----------------------|--|-----------------------|---|-----------------------|
|     | <i>Pinus</i><br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIA/GE-1: Biodiversity<br>3 Identification of all above mentioned genera in theoretical syllabus from permanent slides   | 1                     | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).  | 2                     | Practical<br>DSE-1A: Economic Botany and Biotechnology<br>4. Basic Conception generation about molecular techniques: PCR, Blotting techniques   | 2                     |
| Nov | Theory<br>CCIA/GE-1: Biodiversity<br>morphology, anatomy and reproduction of <i>Pinus</i> .<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIA/GE-1: Biodiversity<br>Revise Practical Class  | 2                     | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Revise Practical Class  | 1                     | Theory<br>DSE-1A: Economic Botany and Biotechnology<br>Unit 10: Recombinant DNA Technique - DNA Fingerprinting<br>Practical<br>DSE-1A: Economic Botany and Biotechnology<br>4. Basic Conception generation about molecular techniques: AGE and PAGE-Protocol  | 5                     |
|     |   | 1                     |  | 1                     |   | 2                     |
| Dec | Theory<br>CCIA/GE-1: Biodiversity<br>Unit 7: Gymnosperms-Doubt clearing class<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIA/GE-1: Biodiversity<br>Revise Practical Class  | 1                     | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Revise Practical Class  | 1                     | Theory<br>DSE-1A: Economic Botany and Biotechnology<br>Unit 10: Recombinant DNA Technique - application of Recombinant DNA Technique<br>Practical<br>DSE-1A: Economic Botany and Biotechnology<br>Revise Practical Class  | 3                     |
|     |   | 1                     |  | 1                     |   | 1                     |
|     | <b>Sem-II (G)</b>   | <b>No. of Lecture</b> | <b>Sem-IV (G)</b>  | <b>No. of Lecture</b> | <b>Sem-VI (G)</b>   | <b>No. of Lecture</b> |
| Jan | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 6 Plant taxonomy - Identification, Classification, Nomenclature.<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Papilionaceae, Apocynaceae, | 2                     | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps<br>Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4 Plant Physiology and Metabolism:<br>4. Demonstration of Hill reaction. | 4                     | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Unit 2: Cell as a unit of Life<br>20 The Cell Theory; Prokaryotic and eukaryotic cells; Cell size and shape; Eukaryotic Cell components.<br>Unit 3: Linkage and Crossing over<br>Linkage: concept & history, complete & incomplete linkage, bridges experiment, coupling & repulsion, recombination frequency, linkage maps based on two and three factor crosses. Crossing over: concept and significance, cytological proof of crossing over.<br>Practical<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>2. Study of the photomicrographs of cell organelles | 2                     |
|     |   | 2                     |  | 2                     |   | 4                     |
| Feb | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 7 Identification - Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and   | 4                     | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers,  | 4                     | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Unit 5: Cell Organelles<br>Mitochondria: Structure, marker enzymes, composition; Semiautonomous nature<br>Practical   | 4                     |

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|-----|--|---|--|---|---|---|
|     | <p>multi-access<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           1. Study and identification of the following families: Labiatae, Solanaceae.</p>   | 2 | <p>channels and pumps<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           5. To study the effect of light intensity and bicarbonate concentration on O<sub>2</sub> evolution in photosynthesis.</p>  | 2 | <p><b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           5. Study of mitosis and meiosis (temporary mounts and permanent slides).</p>  | 2 |
| Mar | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 8 Taxonomic evidences - Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).</p> | 3 | <p><b>Theory</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           Unit 4: Photosynthesis - Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           6. Comparison of the rate of respiration in any two parts of a plant</p> | 6 | <p><b>Theory</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           Unit 5: Cell Organelles<br/>           Symbiont hypothesis; Proteins synthesized within mitochondria; mitochondrial DNA.<br/> <b>Practical</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           8. Study the structure of nuclear pore complex by photograph (from Gerald Karp)/Study of special chromosomes (polytene &amp; lampbrush) either by slides or photographs.</p>  | 4 |
|     | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 8 Taxonomic evidences - Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           3. Ecological adaptations of some species: <i>Nerium</i> leaf</p>   | 2 |  | 2 |   | 2 |
| Apr | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 8 Taxonomic evidences - Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           3. Ecological adaptations of some species: <i>Nerium</i> leaf</p>   | 3 | <p><b>Theory</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           Unit 4: Photosynthesis - Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           Revise Practical class</p>   | 6 | <p><b>Theory</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           Unit 5: Cell Organelles<br/>           Chloroplast Structure, marker enzymes, composition; semiautonomous nature, chloroplast DNA. ER, Golgi body &amp; Lysosomes: Structures and roles. Peroxisomes and Glyoxisomes: Structures, composition, functions in animals and plants and biogenesis.<br/> <b>Practical</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           9. Study DNA packaging by micrographs.</p>              | 4 |
|     | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 9 Taxonomic hierarchy -Ranks, categories and taxonomic groups<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           3. Ecological adaptations of some species: <i>Vanda</i> root</p>  | 1 |  | 1 |   | 2 |
| May | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 9 Taxonomic hierarchy -Ranks, categories and taxonomic groups<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           3. Ecological adaptations of some species: <i>Vanda</i> root</p>  | 2 | <p><b>Theory</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           Unit 9: Plant response to light and temperature - Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and farred light responses on photomorphogenesis; Vernalization.<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-4Plant Physiology and Metabolism:</b><br/>           Revise Practical class</p>  | 3 | <p><b>Theory</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           Unit 5: Cell Organelles<br/>           Nucleus: Nuclear Envelopestructure of nuclear pore complex; chromatin; molecular organization, DNA packaging in eukaryotes, euchromatin and heterochromatin, nucleolus and ribosome structure (brief).<br/> <b>Practical</b><br/> <b>DSE-1B: Cell Biology, Genetics and Molecular Biology</b><br/>           10. Preparation of the karyotype and ideogram from given photograph of somatic metaphase chromosome.</p> | 4 |
|     | <p><b>Theory</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           Unit 9 Taxonomic hierarchy -Ranks, categories and taxonomic groups<br/> <b>Practical (Generic: Physiology &amp; Microbiology Hons.)</b><br/> <b>CCIB/GE-2: Plant Ecology and Taxonomy</b><br/>           3. Ecological adaptations of some species: <i>Vanda</i> root</p>  | 1 |  | 1 |   | 2 |

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|------|---|---|--|---|--|---|
| June | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Doubt clearing class   | 2 | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 9: Plant response to light and temperature - Photoperiodism (SDP, LDP, Day neutral plants);<br>Phytochrome (discovery and structure), red and far red light responses on photomorphogenesis; Vernalization. | 3 | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Unit 7: Cell Cycle Overview of Cell cycle, Mitosis and Meiosis; Molecular controls | 6 |
|      | Practical (Generic: Physiology & Microbiology Hons.)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Revise Practical class | 1 | Practical (Generic: Physiology & Microbiology Hons.)<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Revise Practical class   | 1 | Practical<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Revise Practical class  | 1 |

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**TEACHING PLAN OF SHAMIM ALAM**

(Assistant Professor)

Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)  | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V (G)  | No. of Lecture |
|-------|--|----------------|--|----------------|--|----------------|
| Jul   | <p><b>Theory</b><br/>CCIA/GE-1: Biodiversity<br/>Unit 1: Microbes-Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage)<br/><b>Practical(Bio General)</b><br/>CCIA/GE-1: Biodiversity<br/>2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: <i>Lycopodium</i> (stem), <i>Selaginella</i> (stem) and <i>Pteris</i> (leaflet)</p> | 3              | <p><b>Theory</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>Unit 5: Structural organization of flower Structure of anther and pollen<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf), Hydrophyte (<i>Hydrilla</i> stem).<br/>7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs<br/>8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).<br/>9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).<br/><b>Theory</b><br/>SEC1: Biofertilizers<br/>Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.</p> | 2              | <p><b>Theory</b><br/>DSE-1A: Economic Botany and Biotechnology<br/>Unit 1: Origin of Cultivated Plants-Concept of centres of origin, their importance with reference to Vavilov's work<br/>Unit 2: Cereals-Wheat - Origin, morphology, uses<br/><br/><b>Practical</b><br/>DSE-1A: Economic Botany and Biotechnology<br/>1. Study of economically important plants: Wheat/ through specimens and sections</p> | 4              |
|       | <p><b>Theory</b><br/>CCIA/GE-1: Biodiversity<br/>Unit 1: Lytic and lysogenic cycle, RNA virus (TMV).<br/><b>Practical(Bio General)</b><br/>CCIA/GE-1: Biodiversity<br/>2. Dissection, mounting, description, drawing, labeling and identification of the following genera: b. Gymnosperms: <i>Cycas</i> leaflet, <i>Pinus</i> needle.</p>  | 2              | <p><b>Theory</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>Unit 5: Structure and types of ovules<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf), Hydrophyte (<i>Hydrilla</i> stem).<br/><b>Theory</b><br/>SEC1: Biofertilizers<br/>Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.</p>  | 4              | <p><b>Theory</b><br/>DSE-1A: Economic Botany and Biotechnology<br/>Unit 3: Legumes - General account with special reference to Gram and soybean<br/><b>Practical</b><br/>DSE-1A: Economic Botany and Biotechnology<br/>1. Study of economically important plants: Gram through specimens and sections</p>  | 1              |
| Aug   |  | 3              |  | 2              |  | 4              |
| Sept  | <p><b>Theory</b><br/>CCIA/GE-1: Biodiversity<br/>Unit 1: Economic importance; Bacteria – Discovery, General characteristics and cell structure<br/><b>Practical(Bio</b></p>  | 2              | <p><b>Theory</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>Unit 5: Types of embryo sacs<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: Plant Anatomy and Embryology<br/>7. Types of ovules: anatropous, orthotropous, circinotropous,</p>   | 2              | <p><b>Theory</b><br/>DSE-1A: Economic Botany and Biotechnology<br/>Unit 4: Spices - General account with special reference to clove and black pepper (Botanical name, family, part used, morphology and uses)</p>  | 6              |
|       |  |                |  | 2              |  |                |

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|-----|---|---|--|---|---|---|
|     | <p><b>General</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>3. Identification of all above mentioned genera in theoretical syllabus from permanent slides</p>  | 2 | <p>amphitropous/ campylotropous – Through Permanent Slides/Photographs<br/><b>Theory</b><br/>SECI: <b>Biofertilizers</b><br/>Unit 5 Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.</p>  | 3 | <p><b>Practical</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>1. Study of economically important plants: Black pepper through specimens and sections</p>   | 1 |
| Oct | <p><b>Theory</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>Unit 1: Microbes- Viruses – Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction).<br/>Economic importance.<br/><b>Practical (Bio General)</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>Revise practical class</p>                            | 2 | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Unit 5: Organization and ultrastructure of mature embryo sac.<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).<br/><b>Theory</b><br/>SECI: <b>Biofertilizers</b><br/>Unit 5: Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.</p> | 2 | <p><b>Theory</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>Unit 6: Oils and Fats - General description with special reference to groundnut<br/><br/><b>Practical</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>1 Study of economically important plants., Clove through specimens and sections</p>  | 4 |
|     |   | 1 |  | 2 | 1   |   |
| Nov | <p><b>Theory</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>Unit 6: Pteridophytes- General characteristics, classification, Early land plants (Rhynia). Classification (upto family), morphology, anatomy and reproduction of <i>Lycopodium</i>.<br/><b>Practical (Bio General)</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>Revise practical class</p> | 4 | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Doubt clearing class<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).<br/><b>Theory</b><br/>SECI: <b>Biofertilizers</b><br/>Doubt clearing class</p>   | 1 | <p><b>Theory</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>Unit 7: Fibre Yielding Plants- General description with special reference to Cotton (Botanical name, family, part used, morphology and uses)<br/><br/><b>Practical</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>1. Study of economically important plants: Groundnut through specimens and sections</p> | 4 |
|     |   | 1 |  | 2 | 1   |   |
| Dec | <p><b>Theory</b><br/>CCIA/GE-1:<br/><b>Biodiversity</b><br/>Unit 6: Pteridophytes- morphology, anatomy and reproduction of Selaginella, Equisetum and Pteris. (Developmental details not to be included). Heterospory, stelar evolution. economic importance of Pteridophytes.<br/><b>Practical (Bio General)</b></p>                                     | 4 | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Doubt clearing class<br/><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Revise practical class<br/><b>Theory</b><br/>SECI: <b>Biofertilizers</b><br/>Doubt clearing class</p>   | 1 | <p><b>Theory</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>Doubt clearing class<br/><b>Practical</b><br/>DSE-1A: <b>Economic Botany and Biotechnology</b><br/>Revise practical class</p>   | 1 |
|     |   |   |  | 1 | 1   |   |
|     |   |   |  | 1 | 1   |   |

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|-----|---|-----------------------|---|-----------------------|--|-----------------------|
|     | CC1AGE-1:<br>Biodiversity<br>Revise practical class   | 1                     |   |                       |  |                       |
|     | <b>Sem-II (G)</b>   | <b>No. of Lecture</b> | <b>Sem-IV (G)</b>   | <b>No. of Lecture</b> | <b>Sem-VI (G)</b>  | <b>No. of Lecture</b> |
| Jan | <p>Theory<br/>CC1BGE-2: Plant Ecology and Taxonomy<br/>Unit 5: Phyto geography - Principle biogeographical zones, Endemism<br/>Practical (Bio General)</p> <p>CC1BGE-2: Plant Ecology and Taxonomy<br/>1. Study and identification of the following families: Papilionaceae.</p>  | 4                     | <p>Theory<br/>SEC2: Medicinal Botany<br/>Unit 1: History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts</p>   | 5                     | <p>Theory<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>Unit 1: Techniques in Biology Principles of microscopy; Light Microscopy; Phase contrast microscopy</p> | 1                     |
| Feb | <p>Theory<br/>CC1BGE-2: Plant Ecology and Taxonomy<br/>Unit 10 Botanical nomenclature - Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations.<br/>Practical (Bio General)</p> <p>CC1BGE-2: Plant Ecology and Taxonomy<br/>1. Study and identification of the following families: Apocynaceae.</p> | 6                     | <p>Theory<br/>SEC2: Medicinal Botany<br/>Unit 1: Rasayana, plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. Unani: History, concept: Unmoor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.</p> | 5                     | <p>Theory<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>Unit 1: Fluorescence microscopy; Confocal microscopy; Sample Preparation for light microscopy</p>       | 1                     |
| Mar | <p>Theory<br/>CC1BGE-2: Plant Ecology and Taxonomy<br/>Unit 11 Classification - Types of classification-artificial, natural and phylogenetic. Classification Bentham and Hooker (upto series), Takhtajan.<br/>Practical (Bio General)</p> <p>CC1BGE-2: Plant Ecology and Taxonomy<br/>1. Study and identification of the following families: Labiateae</p>  | 6                     | <p>Theory<br/>SEC2: Medicinal Botany<br/>Unit 3: Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany:</p>   | 5                     | <p>Theory<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>Unit 1: Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM)</p>                   | 1                     |
| Apr | <p>Theory<br/>CC1BGE-2: Plant Ecology and Taxonomy<br/>Unit 12 Biometrics.</p>  | 4                     | <p>Theory<br/>SEC2: Medicinal Botany<br/>Unit 3: National interacts, folk medicines of ethnobotany, ethnomedicine, ethnic</p>   | 5                     | <p>Theory<br/>DSE-1B: Cell Biology, Genetics and Molecular Biology<br/>Unit 1: Sample Preparation</p>  | 1                     |

|      |  |            |   |   |  |   |
|------|--|------------|---|---|--|---|
|      | numerical taxonomy and cladistics - Characters, variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms<br>Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Solanaceae. | 2          | communities of India. Application of natural products to certain diseases Jaundice, cardiac, infertility, diabetes, Blood pressure and skin diseases. |   | for electron microscopy, X-ray diffraction analysis.                                   |   |
| May  | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Doubt clearing class<br>Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book)      | 2<br><br>2 | Theory<br>SEC2: Medicinal Botany<br>Doubt clearing class  | 1 | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Doubt clearing class | 1 |
| June | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Doubt clearing class<br>Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>3. Ecological adaptations of some species: Nerium leaf and Vanda root   | 2<br><br>2 | Theory<br>SEC2: Medicinal Botany<br>Doubt clearing class  | 1 | Theory<br>DSE-1B: Cell Biology, Genetics and Molecular Biology<br>Doubt clearing class | 1 |

*Shm*



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**TEACHING PLAN OF MS. MOUSUMI MUKHERJEE**

(State Aided College Teacher)

Botany (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)   | No. of Lectures | Sem-III (G)  | No. of Lectures | Sem-V (G) | No. of Lectures |
|-------|---|-----------------|--|-----------------|-----------|-----------------|
| Jul   | <p><b>Theory</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 4 Introduction to Archegoniates- Unifying features of archegoniates, Transition to land habit, Alternation of generations.</p> <p><b>Practical (Bio General)</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera a. Algae: <i>Nostoc</i>, <i>Codium</i>, <i>Chara</i>.</p> | 2               | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Unit 1: Meristematic and permanent tissues<br/>Root and shoot apical meristems, Simple and complex tissues</p> <p><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>1. Study of meristems through permanent slides and photographs.</p>  | 4               | NIL       | NIL             |
| Aug   | <p><b>Theory</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 5 Bryophytes- General characteristics, adaptations to land habit,</p> <p><b>Practical (Bio General)</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera b. Fungi: <i>Aspergillus</i>, <i>Puccinia</i> (Uredosorus and teleosorus)</p>                                      | 2               | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Unit 1: Meristematic and permanent tissues<br/>Root and shoot apical meristems, Simple and complex tissues</p> <p><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>2. Tissues (parenchyma, collenchyma and sclerenchyma), Macerated xylary elements, Phloem (Permanent slides, photographs)</p> | 4               | NIL       | NIL             |
| Sept  | <p><b>Theory</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>Unit 5 Bryophytes- Classification, Range of thallus organization</p> <p><b>Practical (Bio General)</b><br/>CCIA/GE-1:<br/>Biodiversity<br/>1. Dissection (where necessary), mounting, description, drawing and identification of the following genera c. Bryophytes: <i>Riccia</i>, <i>Marchantia</i> and <i>Fernaria</i></p>  | 2               | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>Unit 2: Organs (4 Lectures)<br/>Structure of dicot and monocot root stem and leaf</p> <p><b>Practical (Bio General)</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b><br/>3. Stem Monocot: <i>Zea mays</i>, Dicot: <i>Helianthus</i>, Secondary <i>Helianthus</i> (only Permanent slides)</p>                                   | 4               | NIL       | NIL             |
| Oct   | <p><b>Theory</b><br/>CCIA/GE-1:<br/>Biodiversity</p>  |                 | <p><b>Theory</b><br/>CCIC/GE-3: <b>Plant Anatomy and Embryology</b></p>  |                 | NIL       | NIL             |

|     |  |                       |   |                       |                   |                       |
|-----|--|-----------------------|---|-----------------------|-------------------|-----------------------|
|     | Unit 5: Bryophytes- Classification (up to family), morphology, anatomy and reproduction of <i>Marchantia</i><br>Practical(Bio General)<br>CCIA/GE-1: Biodiversity<br>4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin - Curd | 2<br><br>2            | Doubt clearing class<br>Practical (Bio General)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>4. Root: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides)   | 2<br><br>2            |                   |                       |
| Nov | Theory<br>CCIA/GE-1: Biodiversity<br>Unit 5: Bryophytes- morphology, anatomy and reproduction of <i>Fusaria</i> .<br>Practical(Bio General)<br>CCIA/GE-1: Biodiversity<br>Revise Practical Class   | 2<br><br>1            | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class<br>Practical (Bio General)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>5. Leaf: Dicot and Monocot leaf (only Permanent slides)  | 2<br><br>2            | NIL               | NIL                   |
| Dec | Theory<br>CCIA/GE-1: Biodiversity<br>Unit 5: Bryophytes- Ecology and economic importance of bryophytes with special mention of <i>Sphagnum</i> .<br>Practical(Bio General)<br>CCIA/GE-1: Biodiversity<br>Revise Practical Class  | 2<br><br>1            | Theory<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Doubt clearing class<br>Practical (Bio General)<br>CCIC/GE-3: Plant Anatomy and Embryology<br>Revise Practical Class   | 2<br><br>1            | NIL               | NIL                   |
|     | <b>Sem-II (G)</b>  | <b>No. of Lecture</b> | <b>Sem-IV (G)</b>   | <b>No. of Lecture</b> | <b>Sem-VI (G)</b> | <b>No. of Lecture</b> |
| Jan | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 1: Introduction - Plant Ecology and Taxonomy<br>Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Malvaceae   | 2<br><br>2            | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 5: Respiration - Glycolysis, anaerobic respiration<br>Practical (Generic- Hons. & Bio General)<br>CCID/GE-4 Plant Physiology and Metabolism:<br>1. Determination of osmotic potential of plant cell sap by plasmolytic method. | 2<br><br>2            | NIL               | NIL                   |
| Feb | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 2: Ecological factors -Soil: Origin, formation,  | 5                     | Theory<br>CCID/GE-4 Plant Physiology and Metabolism:<br>Unit 5: Respiration - TCA cycle; Oxidative phosphorylation<br>Practical (Generic- Hons. & Bio General)  | 2                     | NIL               | NIL                   |

|     |   |   |  |            |     |     |
|-----|---|---|--|------------|-----|-----|
|     | composition, soil profile. Water: States of water in the environment, Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Rubiaceae  | 2 | CCIB/GE-4Plant Physiology and Metabolism:<br>2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.  | 2          |     |     |
| Mar | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 2: Ecological factors - precipitation types. Light and temperature; Variation Optimal and limiting factors. Adaptation of hydrophytes, halophytes and xerophytes<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>1. Study and identification of the following families: Caesalpiniaceae               | 5 | Theory<br>CCIB/GE-4Plant Physiology and Metabolism:<br>Unit 5: Respiration - Glyoxylate pathway<br><br>Practical (Generic- Zoology Hons.& Bio General)<br>CCIB/GE-4Plant Physiology and Metabolism:<br>3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte. | 2          | NIL | NIL |
|     |   | 2 |  | 2          |     |     |
| Apr | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 3: Plant communities<br>Characters; Ecotone and edge effect, Succession, Processes and types. cycling. Cycling of carbon, nitrogen and Phosphorous<br>Practical (Bio General)<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>3. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem | 6 | Theory<br>CCIB/GE-4Plant Physiology and Metabolism:<br>Doubt clearing class<br>Practical (Generic- Zoology Hons.& Bio General)<br>CCIB/GE-4Plant Physiology and Metabolism:<br>4. Demonstration of Hill reaction.  | 2          | NIL | NIL |
|     |   | 2 |  | 2          |     |     |
| May | Theory<br>CCIB/GE-2: Plant Ecology and Taxonomy<br>Unit 4: Ecosystem - Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycling. Cycling of carbon, nitrogen and Phosphorous<br>Practical (Bio General)<br>CCIB/GE-2: Plant  | 4 | Theory<br>CCIB/GE-4Plant Physiology and Metabolism:<br>Doubt clearing class<br>Practical (Generic- Zoology Hons.& Bio General)<br>CCIB/GE-4Plant Physiology and Metabolism:<br>Revise practical class  | 1<br><br>1 | NIL | NIL |

|      |  |   |   |   |   |     |     |
|------|--|---|---|---|---|-----|-----|
|      | <b>Ecology and Taxonomy</b><br>3. Ecological adaptations of some species: Phyllode of <i>Acacia auriculiformis</i>   | 2 |   |   |   |     |     |
| June | <b>Theory</b><br>CC1B/GE-2: Plant Ecology and Taxonomy.<br>Unit 4: Ecosystem - Structure, energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycling; Cycling of carbon, nitrogen and Phosphorous<br><b>Practical (Bio General)</b><br>CC1B/GE-2: Plant Ecology and Taxonomy<br>Revise practical class | 4 | <b>Theory</b><br>CC1D/GE-4Plant Physiology and Metabolism:<br>Doubt clearing class<br><b>Practical (Generic- Hons.&amp; Bio General)</b><br>CC1D/GE-4Plant Physiology and Metabolism:<br>Revise practical class | 1 | 1 | NIL | NIL |
|      |  | 1 |   |   |   |     |     |

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**DEPARTMENT OF BOTANY  
SURI VIDYASAGAR COLLEGE**

**TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA**

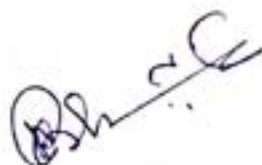
(Associate Professor)

Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture               | Sem-V (H)   | No. of Lecture           |
|-------|--|----------------|---|------------------------------|---|--------------------------|
| Jul   | Theory<br>CC1: Microbiology & Phycology<br>Unit 6: Chlorophyta and Charophyta<br>Practical<br>CC2: Archegoniate<br>Cycas | 3<br><br>2     | Theory<br>CC7: Economic Botany<br>Unit 7: Sources of oils and fats<br>Practical<br>CC7: Economic Botany<br>1. Cereals: Rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests)<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>a) Plant water relation, stomatal regulation, mineral nutrition, N <sub>2</sub> cycle   | 5<br><br>2<br><br>2          | Theory<br>CC11: Plant Physiology<br>Unit 1: Plant-water relations<br>Unit 2: Mineral nutrition<br><br>Practical<br>CC11: Plant Physiology<br>Unit 1: Determination of osmotic potential of plant cell sap by plasmolytic method   | 10<br>8<br><br>2         |
| Aug   | Theory<br>CC1: Microbiology & Phycology<br>Unit 6: Chlorophyta and Charophyta<br>Practical<br>CC2: Archegoniate<br>Cycas | 3<br><br>2     | Practical<br>CC6: Plant systematics<br>2. Field visit<br>Theory<br>CC7: Economic Botany<br>Unit 7: Sources of oils and fats<br>Practical<br>CC7: Economic Botany<br>2. Legumes: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests)<br><br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>a) Plant water relation, stomatal regulation, mineral nutrition, N <sub>2</sub> cycle  | 1<br><br>5<br><br>2<br><br>2 | Theory<br>CC11: Plant Physiology<br>Unit 3: Nutrient Uptake<br>Unit 4: Translocation in the phloem<br><br>Practical<br>CC11: Plant Physiology<br>Unit 2: Determination of water potential of given tissue (potato tuber) by weight method<br>Unit 3: Study of the effect of Humidity and light on the rate of transpiration in excised twig/leaf. | 8<br>8<br><br>2<br><br>2 |
| Sept  | Theory<br>CC1: Microbiology & Phycology<br>Unit 6: Chlorophyta and Charophyta<br>Practical<br>CC2: Archegoniate<br>Pinus | 4<br><br>2     | Theory<br>CC7: Economic Botany<br>Unit 8: Natural Rubber<br>Practical<br>CC7: Economic Botany<br>3. Sources of sugars and starches: Sugarcane (habit sketch, cane juice-micro-chemical tests), Potato (habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests)<br>4. Spices: Black pepper, Fennel and Clove (Macromorphology)<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>b) C <sub>3</sub> fixation mechanism in C <sub>2</sub> , C <sub>3</sub> , C <sub>4</sub> and CAM plants. Transport of water and photosynthate | 3<br><br>2<br><br>1<br><br>2 | Theory<br>CC11: Plant Physiology<br>Unit 5: Plant growth regulators<br><br>Practical<br>CC11: Plant Physiology<br>Unit 4: Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte and xerophyte.  | 14<br><br>2              |
| Oct   | Theory<br>CC1: Microbiology & Phycology<br>Unit 7: Phaeophyta and Rhodophyta<br>Practical<br>CC2: Archegoniate<br>Pinus  | 4<br><br>2     | Theory<br>CC7: Economic Botany<br>Unit 9: Drug-yielding plants<br>Practical<br>CC7: Economic Botany<br>5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans)<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>b) C <sub>3</sub> fixation mechanism in   | 4<br><br>2<br><br>2          | Theory<br>CC12: Plant Metabolism<br>Unit 1: Concept of metabolism<br>Unit 2: Carbon assimilation<br><br>Practical<br>CC12: Plant Metabolism<br>Unit 1: Chemical separation of photosynthetic pigments.  | 6<br>4<br><br>2          |

|     |   |                       |  |                       |   |                       |
|-----|---|-----------------------|--|-----------------------|---|-----------------------|
|     |   |                       | C2,C3,C4 and CAM plants<br>Transport of water and photosynthate  |                       |   |                       |
| Nov | Theory<br>CC1: Microbiology & Phycology<br>Unit 7: Phaeophyta and Rhodophyta<br>Practical<br>CC2: Archegoniate <i>Gnetum</i>                | 4<br><br>2            | Theory<br>CC7: Economic Botany<br>Unit 9: Drug-yielding plants<br>Practical<br>CC7: Economic Botany<br>6. Sources of oils and fats: Coconut- T.S. nut (photograph), Mustard- plant specimen, seeds, tests for fats in crushed seeds<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>c) Plant development<br>Phytohormones: IAA, GA, Cytokinin, ABA, Ethylene, their role and regulation in plant system<br>d) Physiology of flowering and seed development | 4<br><br>2<br><br>2   | Theory<br>CC12: Plant Metabolism<br>Unit 2: Carbon assimilation<br>Unit 3: Carbohydrate metabolism<br><br>Practical<br>CC12: Plant Metabolism<br>Unit 2: To study the effect of light intensity on the rate of photosynthesis.<br>Unit 3: Effect of carbon dioxide on the rate of photosynthesis. | 8<br>2<br><br>2<br>2  |
| Dec | Theory<br>CC1: Microbiology & Phycology<br>Doubt clearing class<br>Practical<br>CC2: Archegoniate <i>Gnetum</i>                             | 2<br><br>2            | Theory<br>CC7: Economic Botany<br>Unit 11: Fibers<br>Practical<br>CC7: Economic Botany<br>7. Essential oil-yielding plants: Habit sketch of <i>Rosa</i> and <i>Eucalyptus</i> -specimens/photographs.<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 1 Plant physiology<br>c) Plant development<br>Phytohormones: IAA, GA, Cytokinin, ABA, Ethylene; their role and regulation in plant system<br>d) Physiology of flowering and seed development                               | 4<br><br>2<br><br>1   | Theory<br>CC12: Plant Metabolism<br>Unit 4: Carbon Oxidation<br><br>Practical<br>CC12: Plant Metabolism<br>Unit 4: To compare the rate of respiration in different parts of a plant.  | 10<br><br>2           |
| Jan | <b>Sem-II (H)</b>   | <b>No. of Lecture</b> | <b>Sem-IV (H)</b>  | <b>No. of Lecture</b> | <b>Sem-VI (H)</b>   | <b>No. of Lecture</b> |
|     | Theory<br>CC3: Mycology and Phytopathology<br>Unit 5: Allied Fungi<br><br>Practical<br>CC3: Mycology and Phytopathology<br>2 Identification | 3<br><br>2            | Theory<br>CC9: Biomolecules and Cell Biology<br>Unit 1: Biomolecules<br><br>Practical<br>CC9: Biomolecules and Cell Biology<br>Unit 1: Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins.   | 6<br><br>2            | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 1: Scope of microbes in industry and environment<br>Practical<br>DSE4: Industrial and Environmental Microbiology<br>Unit 4: Assessment of microbiological quality of water-protocol   | 3<br><br>2            |
| Feb | Theory<br>CC3: Mycology and Phytopathology<br>Unit 6: Oomycota  | 4                     | Theory<br>CC9: Biomolecules and Cell Biology<br>Unit 1: Biomolecules<br>Practical<br>CC9: Biomolecules and Cell Biology<br>Unit 2: Study of plant cell structure with the help of epidermal peel mount of Onion/ <i>Rhoeo</i> / <i>Crinum</i> .  | 6<br><br>2            | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 1: Scope of microbes in industry and environment<br>Practical<br>DSE4: Industrial and Environmental Microbiology<br>Unit 4: Assessment of microbiological quality of water-protocol   | 3<br><br>2            |
| Mar | Theory<br>CC3: Mycology and Phytopathology<br>Unit 7: Symbiotic associations  | 4                     | Theory<br>CC9: Biomolecules and Cell Biology<br>Unit 1: Biomolecules<br>Practical<br>CC9: Biomolecules and Cell  | 6                     | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 7: Microbes in agriculture and remediation  | 3                     |

|      |   |            |   |             |   |            |
|------|---|------------|---|-------------|---|------------|
|      |   |            | Biology<br>Unit 3: Demonstration of the phenomenon of protoplasmic streaming in Hydrilla leaf.  | 2           | of contaminated soils   |            |
| Apr  | Theory<br>CC3: Mycology and Phytopathology<br>Unit 8: Applied Mycology  | 5          | Theory<br>CC9: Biomolecules and Cell Biology<br>Unit 1: Biomolecules<br>Unit 2: Bioenergetics<br>Practical<br>CC9: Biomolecules and Cell Biology<br>Unit 4: Measurement of cell size by the technique of micrometry | 2<br>4<br>2 | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 7: Microbes in agriculture and remediation of contaminated soils<br><br>Practical<br>DSE4: Industrial and Environmental Microbiology<br>Unit 5: A visit to any educational institute/industry to see an industrial fermenter, and other downstream processing operations. | 3<br><br>1 |
| May  | Theory<br>CC3: Mycology and Phytopathology<br>Unit 8: Applied Mycology<br>Practical<br>CC3: Mycology and Phytopathology<br>2 Identification | 5<br><br>1 | Theory<br>CC9: Biomolecules and Cell Biology<br>Unit 3: Enzymes<br>Practical<br>CC9: Biomolecules and Cell Biology<br>Unit 6: Study the phenomenon of plasmolysis and deplasmolysis.                                | 6<br><br>2  | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 7: Microbes in agriculture and remediation of contaminated soils  | 2          |
| June | Theory<br>CC3: Mycology and Phytopathology<br>Doubt clearing class<br><br>Practical<br>CC3: Mycology and Phytopathology<br>2 Identification | 2<br><br>1 | Theory<br>CC9: Biomolecules and Cell Biology<br>Doubt clearing class<br>Practical<br>CC9: Biomolecules and Cell Biology<br>Unit 7: Study the effect of organic solvent and temperature on membrane permeability.    | 2<br><br>2  | Theory<br>DSE4: Industrial and Environmental Microbiology<br>Practical<br>Doubt clearing class<br>DSE4: Industrial and Environmental Microbiology<br>Doubt clearing class   | 1<br><br>1 |




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**TEACHING PLAN OF DR. HEMANTA SAHA**  
(Assistant Professor)

Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture      | Sem-V (H)  | No. of Lecture |
|-------|---|----------------|--|---------------------|--|----------------|
| Jul   | Theory<br>CC2: Archegoniate<br>Unit 4<br>Pteridophytes-<br>General<br>characteristics,<br>Classification, Early<br>land plant | 6              | Practical<br>CC5: Plant Ecology and<br>Phytogeography<br>1. Study of instruments used to<br>measure microclimatic variables<br>Soil thermometer, maximum and<br>minimum thermometer,<br>anemometer,<br>psychrometer/hygrometer, rain<br>gauge and lux meter<br>2. Determination of pH of various<br>soil and water samples (pH meter,<br>universal indicator and pH paper)<br>Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms | 2<br><br>2<br><br>2 | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 4: Pollination and<br>fertilization<br><br>Practical<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 1: Anther    | 6<br><br>2     |
| Aug   | Theory<br>CC2: Archegoniate<br>Unit 5 Type<br>Studies-<br>Pteridophytes-<br>Lycopodium,<br>Selaginella                        | 4              | Practical<br>CC5: Plant Ecology and<br>Phytogeography<br>3. Analysis for carbonates, chlorides,<br>nitrates, sulphates, organic matter<br>and base deficiency from two soil<br>samples by rapid field tests<br>4. Determination of organic matter<br>of different soil samples by Walkley<br>& Black rapid titration method<br>Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms  | 2<br><br>2<br><br>2 | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 5: Self incompatibility<br><br>Practical<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 1: Anther                | 5<br><br>2     |
| Sept  | Theory<br>CC2: Archegoniate<br>Unit 5 Type<br>Studies-<br>Pteridophytes-<br><i>Equisetum, Pteris</i>                          | 4              | Practical<br>CC5: Plant Ecology and<br>Phytogeography<br>5. Determination of dissolved<br>oxygen of water samples from<br>polluted and unpolluted sources<br>Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms<br>Practical<br>CC6: Plant systematics<br>1. Study of vegetative and floral<br>characters from the locally available<br>plants of the following families<br>Dicotyledons: Malvaceae                              | 2<br><br>2<br><br>2 | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 3: Self incompatibility<br><br>Practical<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 2: Pollen grain          | 5<br><br>2     |
| Oct   | Theory<br>CC2: Archegoniate<br>Unit 5: Type<br>Studies-<br>Pteridophytes-<br><i>Marsilea, Aponory,</i><br><i>Apogony</i>      | 4              | Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms<br>Practical<br>CC6: Plant systematics<br>1. Study of vegetative and floral<br>characters from the locally available<br>plants of the following families<br>Dicotyledons: Fabaceae<br>Euphorbiaceae   | 2<br><br>4          | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 6: Embryo, Endosperm<br>and Seed<br><br>Practical<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 2: Pollen grain | 5<br><br>2     |
| Nov   | Theory<br>CC2: Archegoniate<br>Unit 5 Type<br>Studies-<br>Pteridophytes-<br>Heterospory, seed<br>habit, Telome theory         | 4              | Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms<br>Practical<br>CC6: Plant systematics<br>1. Study of vegetative and floral<br>characters from the locally available<br>plants of the following families<br>Dicotyledons: Apocynaceae,<br>Asteraceae  | 2<br><br>4          | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 6: Embryo, Endosperm<br>and Seed<br><br>Practical<br>DSE1: Reproductive<br>Biology of Angiosperms<br>Unit 3: Ovule        | 5<br><br>2     |
| Dec   | Theory<br>CC2: Archegoniate<br>Unit 5 Type  | 4              | Theory<br>CC6: Plant systematics<br>Unit 6: Phylogeny of Angiosperms   | 2                   | Theory<br>DSE1: Reproductive<br>Biology of Angiosperms   |                |



|     |   |                           |   |                           |   |                           |
|-----|---|---------------------------|---|---------------------------|---|---------------------------|
|     | Studies-<br>Pteridophytes- Stejar<br>evolution,<br>Ecological &<br>Economic<br>importance   |                           | <b>Practical</b><br><b>CC6: Plant systematics</b><br>1. Study of vegetative and floral<br>characters from the locally available<br>plants of the following families<br>Dicotyledons: Solanaceae<br>2. Field visit   | 2<br><br>1                | Units 7: Polyembryony and<br>apomixis<br><br><b>Practical</b><br><b>DSE1: Reproductive<br/>Biology of Angiosperms</b><br>Unit 3: Ovule: | 6<br><br>2                |
| Jan | <b>Sem-II (H)</b>   | <b>No. of<br/>Lecture</b> | <b>Sem-IV (H)</b>   | <b>No. of<br/>Lecture</b> | <b>Sem-VI (H)</b>   | <b>No. of<br/>Lecture</b> |
|     | <b>Theory</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>Unit 1: Introduction<br>and scope of Plant<br>Anatomy<br>Unit 2: Structure and<br>Development of<br>Plant Body<br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>1. Study of<br>anatomical details<br>through permanent<br>slides/temporary<br>stain mounts/<br>macerations/museum<br>specimens with the<br>help of suitable<br>examples. | 1<br><br>3<br><br>2       | <b>Theory</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 1: Introduction, importance of<br>Palaeobotany.<br><br><b>Practical</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 2: Pollen morphological studies<br>of Impatiens and Hibiscus pollens<br>form prepared slides  | 5<br><br>2                | <b>Theory</b><br><b>CC13: Genetics &amp; Plant<br/>Breeding</b><br>Unit 9: Methods of crop<br>improvement                               | 2                         |
| Feb | <b>Theory</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>Unit 3: Tissues<br><b>Practical</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>1. Study of<br>anatomical details<br>through permanent<br>slides/temporary<br>stain mounts/<br>macerations/museum<br>specimens with the<br>help of suitable<br>examples.  | 5<br><br>2                | <b>Theory</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 2: Definition of fossil, process<br>of fossilization, types of fossils on<br>the basis of their preservation;<br>concept of Form Genus<br><b>Practical</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 2: Pollen morphological studies<br>of Impatiens and Hibiscus pollens<br>form prepared slides | 15<br><br>2               | <b>Theory</b><br><b>CC13: Genetics &amp; Plant<br/>Breeding</b><br>Unit 9: Methods of crop<br>improvement                               | 2                         |
| Mar | <b>Theory</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>Unit 3: Tissues<br><b>Practical</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>2. Study of the<br>secondary structures<br>of stem of the<br>following genera:<br>Bignonia, Dracaena<br>(Cordyline),<br>Boerhaavia and<br>Strychnos.  | 5<br><br>2                | <b>Theory</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 5: Microsporogenesis;<br>Sporopollen morphology with<br>reference to polarity, size, shape,<br>symmetry, aperture and sculpture  | 15                        | <b>Theory</b><br><b>CC13: Genetics &amp; Plant<br/>Breeding</b><br>Unit 10: Inbreeding<br>depression and heterosis                      | 3                         |
| Apr | <b>Theory</b><br><b>CC4: Morphology<br/>&amp; Anatomy of<br/>Angiosperms</b><br>Unit 4: Apical<br>meristems<br><b>Practical</b><br><b>CC4: Morphology</b>   | 5                         | <b>Theory</b><br><b>CC8: Palaeobotany &amp; Palynology</b><br>Unit 6: Organization of orthotropous<br>ovule, types of ovules;<br>megasporogenesis.  | 10                        | <b>Theory</b><br><b>CC13: Genetics &amp; Plant<br/>Breeding</b><br>Unit 10: Inbreeding<br>depression and heterosis                      | 2                         |

|      |   |            |   |            |   |   |
|------|---|------------|---|------------|---|---|
|      | & Anatomy of Angiosperms<br>2. Study of the secondary structures of stem of the following genera: <i>Bignonia</i> , <i>Dracaena</i> (Cordyline), <i>Boerhaavia</i> and <i>Strychnos</i> .   | 2          |   |            |   |   |
| May  | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 4: Apical meristems<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>3. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates;xylemfibres. (from permanent slides | 5<br><br>2 | Theory<br>CC8: Palaeobotany & Palynology<br>Unit 7: Pollination: Types and contrivances.  | 10         | Theory<br>CC13: Genetics & Plant Breeding<br>Unit 11: Crop improvement and breeding | 2 |
| June | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 4: Apical meristems<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>3. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates;xylemfibres. (from permanent slides | 4<br><br>2 | Theory<br>CC8: Palaeobotany & Palynology<br>Doubt clearing class<br>Practical<br>CC8: Palaeobotany & Palynology<br>Revise Practical Class | 2<br><br>2 | Theory<br>CC13: Genetics & Plant Breeding<br>Doubt clearing class                   | 1 |

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**TEACHING PLAN OF DR. SANDIPAN CHATTERJEE**

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Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)  | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)  | No. of Lecture |
|-------|--|----------------|--|----------------|--|----------------|
| Jul   | Theory:<br>CC1: Microbiology & Phycology<br>Unit 1: Introduction to microbial world<br>Practical<br>CC1: Microbiology & Phycology<br>Aseptic method  | 8              | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 5: Ecosystem<br>Practical<br>CC6: Plant systematics<br>Monocotyledons: Liliaceae<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>a) Microbes used as bio fertilizer                         | 8              | Theory<br>CC11: Plant Physiology<br>Unit 6: Physiology of flowering<br>Practical<br>CC11: Plant Physiology<br>Unit 5: To study the phenomenon of seed dormancy (TTZ).  | 6              |
|       |  | 2              |  | 2              |  | 2              |
| Aug   | Theory:<br>CC1: Microbiology & Phycology<br>Unit 2: Viruses<br>Practical<br>CC1: Microbiology & Phycology<br>Temporary preparation of <i>Nostoc</i> , <i>Scytonema</i> ,                   | 4              | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 6: Population ecology<br>Practical<br>CC6: Plant systematics<br>Monocotyledons: Poaceae.<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>b) Cyanobacteria isolation and mass multiplication | 4              | Theory<br>CC11: Plant Physiology<br>Unit 7: Phytochrome, cryptochromes and phototropins<br>Practical<br>CC11: Plant Physiology<br>Unit 6: Demonstration on the effect of different concentrations of IAA on Plant (Locally Available) coleoptile elongation (IAA Bioassay).<br>Unit 7: To study the induction of amylase activity in germinating grains. | 6              |
|       |  | 2              |  | 2              |  | 4              |
| Sept  | Theory:<br>CC1: Microbiology & Phycology<br>Unit 2: Viruses<br>Practical<br>CC1: Microbiology & Phycology<br>Aseptic method<br>Temporary preparation of <i>Zygnema</i> , <i>Oedogonium</i> | 4              | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 7: Plant communities<br>Practical<br>CC6: Plant systematics<br>Monocotyledons: Liliaceae,<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>c) Mycorrhizal association in Agriculture         | 8              | Theory<br>CC12: Plant Metabolism<br>Unit 5: ATP-Synthesis<br>Practical<br>CC12: Plant Metabolism<br>Unit 5: To demonstrate activity of Nitrate reductase in germinating leaves of different plant sources.<br>Unit 6: To study the activity of lipases in germinating oil-seeds and demonstrate mobilization of lipids during germination.               | 8              |
|       |  | 2              |  | 2              |  | 2              |
| Oct   | Theory:<br>CC1: Microbiology & Phycology<br>Unit 3: Bacteria<br>Practical<br>CC1: Microbiology & Phycology<br>Aseptic method<br>Temporary preparation of <i>Chara</i> and <i>Vaucheria</i> | 7              | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 8: Functional aspects of ecosystem<br>Practical<br>CC6: Plant systematics<br>Monocotyledons: Liliaceae<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>Special class                        | 8              | Theory<br>CC12: Plant Metabolism<br>Unit 6: Lipid metabolism<br>Practical<br>CC12: Plant Metabolism<br>Unit 7: Demonstration of absorption spectrum of photosynthetic pigments.  | 8              |
|       |  | 2              |  | 2              |  | 2              |
| Nov   | Theory:<br>CC1: Microbiology & Phycology<br>Unit 3: Bacteria<br>Practical<br>CC1: Microbiology & Phycology<br>Practice classes   | 7              | Theory<br>CC6: Plant systematics<br>Unit 3: Botanical nomenclature<br>Practical<br>CC6: Plant systematics<br>Monocotyledons: Poaceae.<br>Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>Doubt clearing session  | 7              | Practical<br>CC11: Plant Physiology<br>Practice Classes<br>Theory<br>CC12: Plant Metabolism<br>Unit 7: Nitrogen metabolism   | 2              |
|       |  | 2              |  | 2              |  | 8              |
| Dec   | Theory:<br>CC1: Microbiology & Phycology<br>Special classes + doubt clearing+ discussions<br>Practical   | 4              | Theory<br>CC6: Plant systematics<br>Unit 3: Botanical nomenclature<br>Practical<br>CC6: Plant systematics<br>2. Field visit  | 3              | Theory<br>CC12: Plant Metabolism<br>Unit 8: Mechanisms of signal transduction<br>Practical<br>CC12: Plant Metabolism   | 4              |
|       |  |                |  | 1              |  |                |

|     |   |                       |   |                       |   |                        |
|-----|---|-----------------------|---|-----------------------|---|------------------------|
|     | CC1: Microbiology & Phycology<br>Practice classes   | 2                     | Theory<br>SEC1: Agricultural Botany<br>Unit: 2 Organic farming<br>Question Answer session   | 1                     | Special Classes   | 1                      |
|     | <b>Sem-II (H)</b>   | <b>No. of Lecture</b> | <b>Sem-IV (H)</b>   | <b>No. of Lecture</b> | <b>Sem-VI (H)</b>   | <b>No. of Lecture</b>  |
| Jan | Theory<br>CC3: Mycology and Phytopathology<br>Unit 1: Introduction to true fungi<br>Practical<br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Rhizopus</i>        | 6                     | Theory<br>CC10: Molecular Biology<br>Unit 1: Nucleic acids: Carriers of genetic information<br>Unit 2: The Structures of DNA and RNA / Genetic Material<br>Practical<br>CC10: Molecular Biology<br>Unit 1: Preparation of LB medium and raising <i>E. coli</i> .<br>Theory<br>SEC2: Biofertilizers<br>Unit 1: General account about the microbes used as biofertilizer - <i>Rhizobium</i> -isolation, Identification, mass multiplication, carrier-based inoculants, Actinorrhizal symbiosis. | 4<br>5<br>2<br>2      | Theory<br>CC13: Genetics & Plant Breeding<br>Unit 5: Gene mutations<br>Practical<br>CC14: Plant Biotechnology<br>Unit 4: Study of methods of gene transfer through photographs: <i>Agrobacterium</i> -mediated, direct gene transfer by electroporation, microinjection, microprojectile bombardment.<br>Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 2: Bioreactors/Fermenters and fermentation processes<br>Practical<br>DSE4: Industrial and Environmental Microbiology<br>Unit 1: Principles and functioning of instalments in microbiology laboratory   | 5<br>2<br>12<br>2      |
|     | Theory<br>CC3: Mycology and Phytopathology<br>Unit 2: Chytridiomycota and Zygomycota<br>Practical<br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Talaromyces</i> | 5<br>2                | Theory<br>CC10: Molecular Biology<br>Unit 2: The Structures of DNA and RNA / Genetic Material<br>Unit 3: The replication of DNA<br>Practical<br>CC10: Molecular Biology<br>Unit 2: Study of genomic DNA from <i>E. coli</i> through photographs<br>Theory<br>SEC2: Biofertilizers<br>Unit 1: General account about the microbes used as biofertilizer - <i>Rhizobium</i> -isolation, Identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.                  | 5<br>5<br>2<br>2      | Theory<br>CC13: Genetics & Plant Breeding<br>Unit 6: Fine structure of gene<br>Unit 7: Population and Evolutionary Genetics<br>Practical<br>CC14: Plant Biotechnology<br>Unit 4: Study of methods of gene transfer through photographs: <i>Agrobacterium</i> -mediated, direct gene transfer by electroporation, microinjection, microprojectile bombardment.<br>Theory<br>DSE4: Industrial and Environmental Microbiology<br>Unit 3: Microbial production of industrial products<br>Practical<br>DSE4: Industrial and Environmental Microbiology<br>Unit 1: Principles and functioning of instalments in microbiology laboratory | 2<br>4<br>2<br>12<br>2 |
|     | Theory<br>CC3: Mycology and Phytopathology<br>Unit 3: Ascomycota<br>Practical<br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Alternaria</i>                      | 4<br>2                | Theory<br>CC10: Molecular Biology<br>Unit 3: The replication of DNA<br>Unit 6: Processing and modification of RNA<br>Practical<br>CC10: Molecular Biology<br>Unit 3: Study of DNA replication mechanisms through photographs (Rolling circle, Theta replication and semi-discontinuous replication).<br>Theory<br>SEC2: Biofertilizers<br>Unit 2: <i>Azospirillum</i> isolation and   | 5<br>4<br>2<br>4      | Theory<br>CC14: Plant Biotechnology<br>Unit 2: Recombinant DNA technology<br>Practical<br>CC14: Plant Biotechnology<br>Unit 5: Study of steps of genetic engineering for production of Bt cotton, Golden rice, through photographs.<br>Theory<br>DSE4: Industrial and Environmental   | 12<br>2<br>8           |

|      |   |        |   |                  |   |                       |
|------|---|--------|---|------------------|---|-----------------------|
|      |   |        | mass multiplication -carrier based inoculant, associative effect of different microorganisms. <i>Azotobacter</i> : classification, characteristics - crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication  |                  | Microbiology<br>Unit 4: Microbial enzymes of industrial interest and enzyme immobilization<br><b>Practical</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 2: Study different parts of fermenter as demonstration by photograph  | 2                     |
| Apr  | Theory<br>CC3: Mycology and Phytopathology<br>Unit 3: Ascomycota<br><b>Practical</b><br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Ascohalia</i>    | 4      | Theory<br>CC10: Molecular Biology<br>Unit 6: Processing and modification of RNA<br>Unit 7: Translation<br><b>Practical</b><br>CC10: Molecular Biology<br>Unit 4: Study of structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II through photographs.<br><b>Theory</b><br>SEC2: Biofertilizers<br>Unit 2: <i>Azospirillum</i> : isolation and mass multiplication -carrier based inoculant, associative effect of different microorganisms. <i>Azotobacter</i> : classification, characteristics - crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication | 4<br>4<br>2<br>4 | Theory<br>CC14: Plant Biotechnology<br>Unit 3: Gene Cloning<br><b>Practical</b><br>CC14: Plant Biotechnology<br>Unit 5: Study of steps of genetic engineering for production of Bt cotton, Golden rice, through photographs.<br><b>Theory</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 5: Microbes and quality of environment<br><b>Practical</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 2: Study different parts of fermenter as demonstration by photograph | 10<br>2<br>6<br>2     |
|      | Theory<br>CC3: Mycology and Phytopathology<br>Unit 4: Basidiomycota<br><b>Practical</b><br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Agaricus</i>  | 6<br>2 | Theory<br>CC10: Molecular Biology<br>Unit 7: Translation<br><b>Practical</b><br>CC10: Molecular Biology<br>Repeat practical Class<br><b>Theory</b><br>SEC2: Biofertilizers<br>Unit 5: Organic farming   | 4<br>2<br>3      | Theory<br>CC14: Plant Biotechnology<br>Unit 4: Methods of gene transfer<br>Unit 5: Applications of Biotechnology<br><b>Practical</b><br>CC14: Plant Biotechnology<br>Unit 6: Isolation of plasmid DNA – Protocol<br><b>Theory</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 6: Microbial flora of water<br><b>Practical</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 3: Hands on sterilization techniques and preparation of culture media.                      | 8<br>8<br>2<br>6<br>2 |
| June | Theory<br>CC3: Mycology and Phytopathology<br>Unit 4: Basidiomycota<br><b>Practical</b><br>CC3: Mycology and Phytopathology<br>1 Study of the following genera and their identification: <i>Polyporus</i> | 1<br>2 | Theory<br>CC10: Molecular Biology<br>Special class<br><b>Practical</b><br>CC10: Molecular Biology<br>Repeat practical Class<br><b>Theory</b><br>SEC2: Biofertilizers<br>Unit 5: Organic farming   | 2<br>1<br>3      | Theory<br>CC14: Plant Biotechnology<br>Unit 5: Applications of Biotechnology<br><b>Practical</b><br>CC14: Plant Biotechnology<br>Repeat practical Class<br><b>Theory</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 6: Microbial flora of water<br><b>Practical</b><br>DSE4: Industrial and Environmental Microbiology<br>Unit 3: Hands on sterilization techniques and preparation of culture media.   | 6<br>1<br>4<br>4<br>1 |

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**TEACHING PLAN OF DR. ANIRBAN PAUL**  
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Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture      | Sem-V (H)   | No. of Lecture |
|-------|---|----------------|--|---------------------|---|----------------|
| Jul   | Theory<br>CC1: Microbiology & Phycology<br>Unit 4 Algae- General characters, range of thallus structure, cellular organization<br>CC2: Archegoniate<br>Unit6 Gymnosperms- General characteristics     | 2<br><br>2     | Theory<br>CC6: Plant systematics<br>Unit 1: Significance of Plant systematics<br>Practical<br>CC6: Plant systematics<br>2. Field visit<br>3. Herbarium Preparation<br>Theory<br>SEC1: Agricultural Botany<br>Unit.3 Plant breeding, Tissue culture and Biotechnology<br>a) Mass selection and pure line selection, heterosis breeding                | 6<br><br>2<br><br>3 | Theory<br>DSE1: Natural Resource Management<br>Unit 1: Natural resources<br>Practical<br>DSE1: Natural Resource Management<br>Unit 1: Study of solid waste generated by a domestic system (biodegradable and non-biodegradable) and its impact on land degradation  | 2<br><br>2     |
| Aug   | Theory<br>CC1: Microbiology & Phycology<br>Unit 4 Algae- Endosymbiotic theory, Fritsch' classification (1935)<br>CC2: Archegoniate<br>Unit6 Gymnosperms- Classifications of Stewart & Rothwell (1993) | 1<br><br>2     | Theory<br>CC6: Plant systematics<br>Unit 1: Significance of Plant systematics<br>Practical<br>CC6: Plant systematics<br>2. Field visit<br>3. Herbarium Preparation<br>Theory<br>SEC1: Agricultural Botany<br>Unit.3 Plant breeding, Tissue culture and Biotechnology<br>b) Marker assisted breeding for agronomic crops                              | 6<br><br>2<br><br>2 | Theory<br>DSE1: Natural Resource Management<br>Unit 2: Sustainable utilization<br>Practical<br>DSE1: Natural Resource Management<br>Unit 2: Collection of data on forest cover of specific area.  | 8<br><br>2     |
| Sept  | Theory<br>CC1: Microbiology & Phycology<br>Unit 4. Algae- Evolutionary classification of Lee (2008)<br>CC2: Archegoniate<br>Unit6 Gymnosperms- Cycas sp.  | 1<br><br>4     | Theory<br>CC6: Plant systematics<br>Unit 2. Taxonomic hierarchy<br>Practical<br>CC6: Plant systematics<br>2. Field visit<br>3. Herbarium Preparation<br>Theory<br>SEC1: Agricultural Botany<br>Unit.3 Plant breeding, Tissue culture and Biotechnology<br>c) Micro propagation techniques, different organ culture                                   | 6<br><br>2<br><br>2 | Theory<br>DSE1: Natural Resource Management<br>Unit 7: Energy Renewable and non-renewable sources of energy<br>Practical<br>DSE1: Natural Resource Management<br>Unit 3: Measurement of dominance of woody species by DBH (diameter at breast height) method.   | 6<br><br>2     |
| Oct   | Theory<br>CC1: Microbiology & Phycology<br>Unit 4: Algae- Contributions of Phycologist<br>CC2: Archegoniate<br>Unit6 Gymnosperms- Pinus sp.   | 1<br><br>4     | Practical<br>CC6: Plant systematics<br>2. Field visit<br>3. Herbarium Preparation<br>Theory<br>CC7: Economic Botany<br>Unit 1: Origin of Cultivated Plants<br>Theory<br>SEC1: Agricultural Botany<br>Unit.3 Plant breeding, Tissue culture and Biotechnology<br>d) Agrobacterium mediated transformation, vector mediated transformation, Biolistics | 2<br><br>3<br><br>2 | Theory<br>DSE1: Natural Resource Management<br>Unit 8: Contemporary practices in resource management EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting, Waste management.<br>Practical<br>DSE1: Natural Resource Management<br>Revise Practical classes | 8<br><br>2     |
| Nov   | Theory<br>CC1: Microbiology & Phycology<br>Unit 4: Algae- Roll of algae in environment, agriculture, biotechnology & industry<br>CC2: Archegoniate<br>Unit6 Gymnosperms-                              | 1<br><br>4     | Practical<br>CC6: Plant systematics<br>2. Field visit<br>3. Herbarium Preparation<br>Theory<br>CC7: Economic Botany<br>Unit 1: Origin of Cultivated Plants<br>Theory   | 2<br><br>3          | Theory<br>DSE1: Natural Resource Management<br>Unit 9: National and international efforts in resource management and conservation<br>Practical<br>DSE1: Natural Resource  | 4              |

|     |  |  |  |                                |   |   |
|-----|--|--|--|--------------------------------|---|---|
|     | <i>Gnetamp.</i>  |  | SEC1: Agricultural Botany<br>Unit:3 Plant breeding, Tissue culture and Biotechnology<br>e) GMO, transgenic plant, patent.  | 2                              | Management<br>Revise Practical classes  | 1   |
| Dec | Theory<br>CC2: Archegoniate<br>Unit6:Gymnosperms-<br>Ecological and economic importance  | 2  | Theory<br>CC6: Plant systematics<br>Doubt clearing session   | 1                              | Theory<br>DSE1: Natural Resource Management<br>Doubt clearing class   | 1   |
|     |  |  | Theory<br>CC7: Economic Botany<br>Unit 10: Timber plants   | 3                              | Practical<br>DSE1: Natural Resource Management<br>Revise Practical classes  | 2   |
|     |  |  | Theory<br>SEC1: Agricultural Botany<br>Unit:3 Plant breeding, Tissue culture and Biotechnology<br>f) Molecular markers used in Agriculture   | 2                              |   |   |
| Jan | <b>Sem-II (H)</b>  | <b>No. of Lecture</b>                      | <b>Sem-IV (H)</b>  | <b>No. of Lecture</b>          | <b>Sem-VI (H)</b>   | <b>No. of Lecture</b>                       |
|     | Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9: Phytopathology<br>Phytopathology terms +<br>Koch's postulate<br>Practical<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Plant disease<br>Identification + Study<br>Tour   | 1<br><br><br><br><br><br><br><br><br><br>2 | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 4: The cell<br>Practical<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 5: Cytochemical staining of:<br>DNA- Feulgen and cell wall in<br>the epidermal peel of onion using<br>Periodic Schiffs (PAS) staining<br>technique | 4<br><br><br><br><br><br><br>2 | Theory<br>CC13: Genetics & Plant<br>Breeding<br>Unit 1: Mendelian genetics<br>and its extension<br>Practical<br>CC13: Genetics & Plant<br>Breeding<br>Unit 1: Meiosis through<br>temporary squash<br>preparation, <i>Allium cepa</i> .<br>Mendel's laws through<br>seed Unit 2: ratios.<br>Laboratory exercises in<br>probability and chi-square. | 5<br><br><br><br><br><br><br>2<br><br><br>2 |
| Feb | Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9:<br>Phytopathology Symptom,<br>distribution & types of<br>disease<br>Practical<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Study of the following<br>diseases: White rust, Rust<br>of <i>Triticum</i> & loose smut<br>of wheat | 2<br><br><br><br><br><br><br>3             | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 5: Cell wall & plasma<br>membrane<br>Unit 6: Cell organelles<br>Nucleus+ Chromosome  | 4<br><br><br><br>4             | Theory<br>CC13: Genetics & Plant<br>Breeding<br>Unit 1: Mendelian genetics<br>and its extension<br>Practical<br>CC13: Genetics & Plant<br>Breeding<br>Unit 3: Chromosome<br>mapping using point test<br>cross data.<br>Unit 4: Pedigree analysis<br>for dominant and recessive<br>autosomal and sex linked<br>traits.                             | 5<br><br><br><br><br><br><br>2<br><br><br>2 |
|     |  |  | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 6: Cell organelles   | 6                              | Theory<br>CC13: Genetics & Plant<br>Breeding<br>Unit 2: Extrachromosomal<br>Inheritance<br>Unit 3: Linkage, crossing<br>over and chromosome<br>mapping<br>Practical<br>CC13: Genetics & Plant<br>Breeding<br>Unit 5: Incomplete<br>dominance and gene<br>interaction through seed<br>ratios (9:7, 9:6:1, 13:3,<br>15:1, 12:3:1, 9:3:4).           | 2<br><br><br><br><br><br><br>4              |
|     |  |  | Practical<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 8: Study different stages of<br>mitosis of <i>Allium cepa</i> .   | 2                              | Unit 6: Photographs /<br>Permanent Slides showing<br>Translocation Ring,<br>Laggards and Inversion<br>Bridge.<br>Unit 7: Testing of<br>goodness of fit with<br>Mendelian mono and<br>dihybrid ratios  | 1<br><br><br><br><br><br><br>2              |
| Mar | Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9: Phytopathology<br>Host defense<br>mechanism+ Prevention-<br>control<br>Practical<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Citrus Canker+Angular<br>leaf spot of cotton+<br>TMV+Vicin clearing<br>(From Herbarium)          | 2<br><br><br><br><br><br><br>3             | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 6: Cell organelles   | 6                              | Theory<br>CC13: Genetics & Plant<br>Breeding<br>Unit 2: Extrachromosomal<br>Inheritance<br>Unit 3: Linkage, crossing<br>over and chromosome<br>mapping<br>Practical<br>CC13: Genetics & Plant<br>Breeding<br>Unit 5: Incomplete<br>dominance and gene<br>interaction through seed<br>ratios (9:7, 9:6:1, 13:3,<br>15:1, 12:3:1, 9:3:4).           | 2<br><br><br><br><br><br><br>4              |
|     |  |  | Practical<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 8: Study different stages of<br>mitosis of <i>Allium cepa</i> .   | 2                              | Unit 6: Photographs /<br>Permanent Slides showing<br>Translocation Ring,<br>Laggards and Inversion<br>Bridge.<br>Unit 7: Testing of<br>goodness of fit with<br>Mendelian mono and<br>dihybrid ratios  | 1<br><br><br><br><br><br><br>2              |
|     |  |  |  |                                |   |   |

|      |   |   |   |            |   |                     |
|------|---|---|---|------------|---|---------------------|
| Apr  | Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9: Phytopathology<br>Citrus canker+ bacterial<br>blight of rice+TMV+<br>Late blight of potato<br>(Disease cycle & control)<br>Practical                                  | 3 | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 6: Cell organelles<br>Practical<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 8: Study different stages of<br>meiosis of <i>Allium cepa</i> .            | 6<br><br>2 | Theory<br>CC13: Genetics & Plant<br>Breeding<br>Unit 4: Variation in<br>chromosome number and<br>structure<br>Unit 8: Plant Breeding.<br><br>Practical<br>CC14: Plant<br>Biotechnology<br>Unit 1: (a) Preparation of<br>MS medium. (b)<br>Demonstration of <i>in vitro</i><br>sterilization<br>and<br>inoculation methods using<br>leaf and nodal explants of<br>tobacco. <i>Datura</i> , <i>Brassica</i><br>etc. | 5<br><br>4<br><br>2 |
|      | Core Course III:<br>Mycology and<br>Phytopathology<br>Early & Late blight of<br>potato+Black stem rust of<br>wheat+White rust of<br>crucifers (From<br>Herbarium)   | 2 |   |            |   |                     |
| May  | Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9: Phytopathology<br>Ergot of rye+Black stem<br>rust of wheat+loose and<br>covered smut of<br>wheat+White rust of<br>crucifers (Disease cycle<br>& control)<br>Practical | 4 | Theory<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 7: Cell division & cell cycle<br>Practical<br>CC9: Biomolecules and Cell<br>Biology<br>Unit 8: Study different stages of<br>meiosis of <i>Allium cepa</i> . | 6<br><br>2 | Theory<br>CC14: Plant<br>Biotechnology<br>Unit 1: Plant Tissue<br>Culture<br><br>Practical<br>CC14: Plant<br>Biotechnology<br>Unit 2: Study of anther,<br>embryo and endosperm<br>culture, micropropagation,<br>somatic embryogenesis &<br>artificial seeds through<br>photographs.   | 8<br><br>2          |
|      | Core Course III:<br>Mycology and<br>Phytopathology<br>mycorrhizae<br>(photographs)  | 1 |   |            |   |                     |
| June | Theory and Practical<br>Theory<br>Core Course III:<br>Mycology and<br>Phytopathology<br>Unit 9: Phytopathology<br>Special classes + doubt<br>clearing+ discussions  | 1 | Theory and Practical: Special<br>classes + doubt clearing+<br>discussions   | 2          | Theory<br>CC14: Plant<br>Biotechnology<br>Unit 1: Plant Tissue<br>Culture<br><br>Practical<br>CC14: Plant<br>Biotechnology<br>Unit 3: Isolation of<br>protoplasts-Protocol  | 8<br><br>1          |
|      |   |   |   |            |   |                     |

APL



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**TEACHING PLAN OF SHAMIM ALAM**  
(Assistant Professor)  
Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)   | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)   | No. of Lecture |
|-------|---|----------------|---|----------------|---|----------------|
| Jul   | CC1: Microbiology & Phycology<br>Unit 5: Cyanophyta and Xanthophyta<br>Practical<br>CC1: Microbiology & Phycology<br>Staining & Bacteria from curd & root nodules | 2              | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 9: Phytogeography<br>Practical<br>CC6: Plant systematics<br>1. Study of vegetative and floral characters from the locally available plants of the following families<br>Dicotyledons: Scrophulariaceae, Lamiaceae                                       | 12             | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 1: Introduction   | 4              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 4: Female gametophyte through permanent slides / photographs | 2              |
| Aug   | CC1: Microbiology & Phycology<br>Unit 5: Cyanophyta and Xanthophyta<br>Practical<br>CC1: Microbiology & Phycology<br>Identification of Algae                      | 2              | Theory<br>CC6: Plant systematics<br>Unit 4: Systems of classification<br>CC6: Plant systematics<br>1. Study of vegetative and floral characters from the locally available plants of the following families<br>Dicotyledons: Verbenaceae, Acanthaceae   | 12             | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 2: Reproductive development                                     | 6              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 5: Embryogenesis   | 2              |
| Sept  | Theory<br>CC1: Microbiology & Phycology<br>Unit 5: Cyanophyta and Xanthophyta<br>Practical<br>CC2: Archegoniate<br><i>Marchantia</i>                              | 2              | Theory<br>CC6: Plant systematics<br>Unit 5: Biometrics, numerical taxonomy and cladistics<br>Practical<br>CC6: Plant systematics<br>1. Study of vegetative and floral characters from the locally available plants of the following families<br>Dicotyledons: Rubiaceae, Asteraceae                             | 10             | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 3: Anther and pollen biology                                    | 5              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 5: Embryogenesis   | 2              |
| Oct   | Theory<br>CC1: Microbiology & Phycology<br>Doubt clearing class<br>Practical<br>CC2: Archegoniate<br><i>Anthoceros</i>  | 2              | Theory<br>CC7: Economic Botany<br>Unit 2: Cereals<br>Unit 3: Legumes<br>Practical<br>CC7: Economic Botany<br>8. Rubber: specimen, photograph/model of tapping, samples of rubber products.  | 6              | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 3: Anther and pollen biology                                    | 5              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Doubt clearing class  | 2              |
| Nov   | Theory<br>CC1: Microbiology & Phycology<br>Doubt clearing class<br>Practical<br>CC2: Archegoniate<br><i>Pellia</i>  | 2              | Theory<br>CC7: Economic Botany<br>Unit 4: Sources of sugars and starches<br>Unit 5: Spices<br>Practical<br>CC7: Economic Botany<br>9. Drug-yielding plants: Organoleptic study of specimens of <i>Andrographis</i> and <i>Catharanthus</i> .<br>10. Woods: Tectona, Pinns'.<br>Specimen, Section of young stem. | 4              | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 4: Ovule  | 5              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Doubt clearing class  | 1              |
| Dec   | Theory<br>CC1: Microbiology & Phycology<br>Doubt clearing class<br>Practical<br>CC2: Archegoniate<br><i>Funaria</i>   | 2              | Theory<br>CC7: Economic Botany<br>Unit 6: Beverages<br>Practical<br>CC7: Economic Botany<br>11. Fiber-yielding plants: Jute   | 4              | Theory<br>DSE1: Reproductive Biology of Angiosperms<br>Unit 4: Ovule  | 5              |
|       |   | 2              |   | 2              | Practical<br>DSE1: Reproductive Biology of Angiosperms<br>Doubt clearing class  | 1              |
| Jan   | Sem-II (H)  | No. of         | Sem-IV (H)  | No. of         | Sem-VI (H)  | No. of         |

|     |  | Lecture |  | Lecture |  | Lecture |
|-----|--|---------|--|---------|--|---------|
|     | <p><b>Theory</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>Unit 5: Vascular Cambium and Wood<br/><b>Practical</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>4. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres, (from permanent slides)</p>   | 4       | <p><b>Theory</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 3: Stratigraphy</p> <p><b>Practical</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 1: Study (including mode of preservation) of the following: <i>Lepidodendron</i>, (stem in T. S.)</p> <p><b>Theory</b><br/>SEC2: Biofertilizers<br/>Unit 3: Cyanobacteria</p>                 | 5       | <p><b>Theory</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 1: Earliest forms of plant life</p> <p><b>Practical</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 1: Study of vegetative and reproductive structure of aquatic plants (<i>Nostoc</i>, <i>Chlamydomonas</i>, <i>Oedogonium</i>).</p> | 6       |
| Feb | <p><b>Theory</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>Unit 5: Vascular Cambium and Wood<br/><b>Practical</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>4. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres, (from permanent slides)</p>   | 4       | <p><b>Theory</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 3: Stratigraphy</p> <p><b>Practical</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 1: Study (including mode of preservation) of the following: <i>Calamiter</i> (stem in T. S.)</p> <p><b>Theory</b><br/>SEC2: Biofertilizers<br/>Unit 3: Cyanobacteria</p>                      | 5       | <p><b>Theory</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 1: Earliest forms of plant life</p> <p><b>Practical</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 1: Study of vegetative and reproductive structure of aquatic plants <i>Faucheria</i>, <i>Polysiphonia</i>).</p>                   | 6       |
| Mar | <p><b>Theory</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>Unit 5: Vascular Cambium and Wood<br/><b>Practical</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>5. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular, lenticels.</p>   | 4       | <p><b>Theory</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 3: Stratigraphy</p> <p><b>Practical</b><br/>CC8: Palaeobotany &amp; Palynology<br/><i>Bucklandia</i> (stem, specimen)</p> <p><b>Theory</b><br/>SEC2: Biofertilizers<br/>Unit 4: Mycorrhizal association</p>   | 5       | <p><b>Theory</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 2: Evolutionary trends</p> <p><b>Practical</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 2: Study of vegetative and reproductive structure of plants of moist shady habitats (<i>Marchantia</i>, <i>Funaria</i>).</p>               | 6       |
| Apr | <p><b>Theory</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>Unit 5: Vascular Cambium and Wood<br/>Unit 6: Adaptive and Protective Systems<br/><b>Practical</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>5. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular, lenticels.</p> | 2       | <p><b>Theory</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 4: Geologic Time Scale</p> <p><b>Practical</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 1: Study (including mode of preservation) of the following: <i>Glossopteris</i> (leaf, specimen)</p> <p><b>Theory</b><br/>SEC2: Biofertilizers<br/>Unit 4: Mycorrhizal association</p> | 5       | <p><b>Theory</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 2: Evolutionary trends</p> <p><b>Practical</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 2: Study of vegetative and reproductive structure of plants of moist shady habitats (<i>Pteris</i>).</p>                                   | 6       |
| May | <p><b>Theory</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms<br/>Unit 6: Adaptive and Protective Systems<br/><b>Practical</b><br/>CC4: Morphology &amp; Anatomy of Angiosperms</p>  | 3       | <p><b>Theory</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 4: Geologic Time Scale</p> <p><b>Practical</b><br/>CC8: Palaeobotany &amp; Palynology<br/>Unit 1: Study (including mode of preservation) of the following: <i>Lycopodium</i> (stem in T. S.)</p>  | 5       | <p><b>Theory</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 3: Phylogeny of plants</p> <p><b>Practical</b><br/>DSE3: Plant Evolution and Biodiversity<br/>Unit 3: Leaf anatomy of <i>Suaeda</i>, <i>Avicennia</i></p>   | 6       |

|      |  |   |   |   |  |   |
|------|--|---|---|---|--|---|
|      | 6. Root: monocot, dicot, secondary growth (from permanent slides).   | 2 | Theory<br>SEC2: Biofertilizers<br>Unit 4: Mycorrhizal association   | 2 | (Halophytes)- Photographs  |   |
| June | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 6: Adaptive and Protective Systems<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>6. Root: monocot, dicot, secondary growth (from permanent slides). | 3 | Theory<br>CC8: Palaeobotany & Palynology<br>Doubt clearing class<br>Practical<br>CC8: Palaeobotany & Palynology<br>Unit 1: Study (including mode of preservation) of the following: <i>Vertebraria</i> (root, specimen) | 2 | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 3: Phylogeny of plants  | 6 |
|      |  | 2 | Theory<br>SEC2: Biofertilizers<br>Unit 4: Mycorrhizal association   | 2 | Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 3: Leaf anatomy of <i>Hertiera</i> (Halophytes)- Photographs | 1 |

*Shm*



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**TEACHING PLAN OF MS. MOUSUMI MUKHERJEE**

(State Aided College Teacher)

Botany (Honours) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (H)  | No. of Lecture             | Sem-III (H)   | No. of Lecture      | Sem-V (H)   | No. of Lecture     |
|-------|--|----------------------------|---|---------------------|---|--------------------|
| Jul   | Theory<br>CC2: Archegoniate<br>Unit 1: Introduction-archegoniate;<br>Transition and adaptation to land habit; Alternation of generations<br>Practical<br>CC2: Archegoniate<br><i>Lycopodium</i>  | 4<br><br><br><br><br><br>2 | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 1: Introduction<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>6. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem, Phyllode of <i>Acaciaauriculiformis</i>                                   | 4<br><br><br><br>2  | Theory<br>DSE1: Natural Resource Management<br>Unit 3: Land<br>Practical<br>DSE1: Natural Resource Management<br>Unit 4: Calculation and analysis of ecological footprint.  | 8<br><br><br><br>2 |
| Aug   | Theory<br>CC2: Archegoniate<br>Unit 2: Bryophytes-General characteristics & Classification [upto order] of Schuster (1968); Adaptations to land habit; Range of thallus organization<br>Practical<br>CC2: Archegoniate<br><i>Selaginella</i> | 6<br><br><br><br><br><br>2 | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 1: Introduction<br>Unit 2: Soil<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>6. Ecological adaptations of some species: <i>Nerium</i> leaf and <i>Fanda</i> root  | 2<br>2<br><br><br>2 | Theory<br>DSE1: Natural Resource Management<br>Unit 4: Water<br>Practical<br>DSE1: Natural Resource Management<br>Unit 4: Calculation and analysis of ecological footprint. | 8<br><br><br><br>2 |
| Sept  | Theory<br>CC2: Archegoniate<br>Unit 3: Type Studies-Bryophytes- <i>Riccia</i> , <i>Marchantia</i><br>Practical<br>CC2: Archegoniate<br><i>Equisetum</i>  | 4<br><br><br><br><br>2     | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 2: Soil<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>7. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed) | 4<br><br><br><br>2  | Theory<br>DSE1: Natural Resource Management<br>Unit 5: Biological Resources<br>Practical<br>DSE1: Natural Resource Management<br>Unit 5: Ecological modeling                | 6<br><br><br><br>2 |
| Oct   | Theory<br>CC2: Archegoniate<br>Unit 3: Type Studies-Bryophytes- <i>Pellia</i> , <i>Anthoceros</i><br>Practical<br>CC2: Archegoniate<br><i>Pteris</i>   | 4<br><br><br><br><br>2     | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 3: Water<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>8. Field visit to familiarize students with ecology of different sites.   | 4<br><br><br><br>2  | Theory<br>DSE1: Natural Resource Management<br>Unit 5: Biological Resources<br>Practical<br>DSE1: Natural Resource Management<br>Unit 5: Ecological modeling                | 6<br><br><br><br>2 |
| Nov   | Theory<br>CC2: Archegoniate<br>Unit 3: Type Studies-Bryophytes- <i>Sphagnum</i> , <i>Funaria</i><br>Practical<br>CC2: Archegoniate<br>Revise Practical Class   | 4<br><br><br><br><br>2     | Theory<br>CC5: Plant Ecology and Phytogeography<br>Unit 4: Light, temperature, wind and fire<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>8. Field visit to familiarize students with ecology of different sites.   | 4<br><br><br><br>1  | Theory<br>DSE1: Natural Resource Management<br>Unit 6: Forests<br>Practical<br>DSE1: Natural Resource Management<br>Revise Practical Class                                  | 6<br><br><br><br>1 |
| Dec   | Theory<br>CC2: Archegoniate<br>Doubt clearing class<br>Practical<br>CC2: Archegoniate<br>Revise Practical Class  | 2<br><br><br><br>1         | Theory<br>CC5: Plant Ecology and Phytogeography<br>Doubt clearing class<br>Practical<br>CC5: Plant Ecology and Phytogeography<br>Revise Practical Class   | 1<br><br><br><br>1  | Theory<br>DSE1: Natural Resource Management<br>Doubt clearing class<br>Practical<br>DSE1: Natural Resource Management<br>Revise Practical Class                             | 2<br><br><br><br>1 |
| Jan   | Sem-II (H)   | No. of                     | Sem-IV (H)  | No. of              | Sem-VI (H)  | No. of             |

|      |   | Lecture |   | Lecture |   | Lecture |
|------|---|---------|---|---------|---|---------|
|      | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 7: Leaves and Inflorescence<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides) | 2       | Theory<br>CC10: Molecular Biology<br>Unit 4: Central dogma and genetic code<br>Unit 5: Transcription<br>Practical<br>CC10: Molecular Biology<br>Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments) | 2       | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 4: Evolutionary theories<br>Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 4: Morphological and anatomical study of <i>Hydrilla and Cillimaria</i>                      | 4       |
| Feb  | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 7: Leaves and Inflorescence<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides) | 2       | Theory<br>CC10: Molecular Biology<br>Unit 5: Transcription<br>Practical<br>CC10: Molecular Biology<br>Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)   | 4       | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 4: Evolutionary theories<br>Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 4: Morphological and anatomical study of <i>Arauc.</i>                                       | 4       |
| Mar  | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 8: Flower, Fruit and Seed<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>8. Leaf: Different variations; C4 leaves (Kranz anatomy).                                  | 2       | Theory<br>CC10: Molecular Biology<br>Unit 5: Transcription<br>Practical<br>CC10: Molecular Biology<br>Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.   | 4       | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 4: Evolutionary theories<br>Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 5: Morphological and anatomical study of plants of arid habitat ( <i>Nerium</i> ).           | 4       |
| Apr  | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 8: Flower, Fruit and Seed<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>9. Cystolith, lithocysts and Raphides.   | 2       | Theory<br>CC10: Molecular Biology<br>Unit 5: Transcription<br>Practical<br>CC10: Molecular Biology<br>Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.   | 4       | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 5: Plant diversity around the world<br>Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 5: Morphological and anatomical study of plants of arid habitat ( <i>Pinus</i> ). | 4       |
| May  | Theory<br>CC4: Morphology & Anatomy of Angiosperms<br>Unit 8: Flower, Fruit and Seed<br>Practical<br>CC4: Morphology & Anatomy of Angiosperms<br>10. Types of inflorescences, placentation and fruits.                                      | 2       | Theory<br>CC10: Molecular Biology<br>Unit 5: Transcription<br>Practical<br>CC10: Molecular Biology<br>Revise Practical Class  | 4       | Theory<br>DSE3: Plant Evolution and Biodiversity<br>Unit 5: Plant diversity around the world<br>Practical<br>DSE3: Plant Evolution and Biodiversity<br>Unit 6: Field visit and report preparation.  | 4       |
| June | Theory<br>CC4: Morphology   |         | Theory<br>CC10: Molecular Biology   |         | Theory<br>DSE3: Plant Evolution   |         |

|  |   |  |   |  |   |
|--|---|--|---|--|---|
| <b>&amp; Anatomy of Angiosperms</b><br>Doubt clearing class<br><b>Practical</b><br><b>CC4: Morphology &amp; Anatomy of Angiosperms</b><br>Revise Practical Class | 2 | Doubt clearing class<br><b>Practical</b><br><b>CC10: Molecular Biology</b><br>Revise Practical Class | 2 | <b>and Biodiversity</b><br>Unit 5: Plant diversity around the world<br><br><b>Practical</b><br><b>DSE3: Plant Evolution and Biodiversity</b><br>Revise Practical Class | 4 |
|  | 1 |  | 2 |  | 2 |

Mca



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# SURI VIDYASAGAR COLLEGE

## DEPARTMENT OF ARABIC

Teaching plan of Dr. MOHD MOATASIM

B.A. Arabic (Hons. & Genl.) session July 2020– June 2021

| Sem-I (Hons. & Genl)  | No. of Lecture   | Sem-III (Hons. & Genl)  | No. of Lecture  | Sem-V (Hons. & Genl)  | No. of Lecture  |
|---|--|---|---|---|---|
| CC1: Hist. of Arabic Lit.(from Pre-Islamic to Umayyad period), Gram. & Trans  | Total Classes=30   | CC5: Poetry (Pre-Islamic, Islamic & Umayyad period)<br>5: Selected Verses from Poetry of Al- Farazdaq.<br>6: Selected Verses from Poetry of Jarir   | Total Classes=20<br>10<br>10                                      | CC-11: Prose (Modern Period unit 1)<br>(5): Manhaj al-Anbiyā' fi al-islāh wa al-taqhyir (The method of Prophets to reform and change): Syed Abul Hasan Ali Nadwi  | Total Classes=10<br>10  |
| <b>Part B: Grammar &amp; Translation</b><br>(a) Words; Noun, Verb & Particles<br>(b) Number: Singular, Dual & Plural<br>(c) Definite & Indefinite Noun<br>(d) Gender; Masculine & Feminine<br>(e) Demonstrative Pronoun<br>(f) Relative Pronoun<br>(g) Personal Pronouns and Its Kinds<br>(h) Prepositions<br>(i) Interrogative words<br>(j) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb<br>(k) Simple Verbs (Mujarrad Verbs)<br>(l) Possessive compound (Genitive Construction)<br>(m)Noun and adjective<br>(n) Subject and Predicate (Nominative Sentences) | 2<br>4<br>1<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | CC-6: History of Arabic literature (Spain) gram. & trans.<br><b>Unit: B</b><br>1) Complex Verbs (Mazid Verbs) and its Stem-Forms<br>2) Features of Stem-Forms: If'āl, Taf'īl, Ifti'āl, Istif'āl, Mufā'ala<br>3) Semi-Defective Verbs; (Af'āl al-Muqāraba wa al-Rij'ā' wa al-Shuru' (Approximative, Hope and Inchoative verbs)<br>4) Defective Verbs<br>5) Plural and its kinds<br>6) Five objects                       | Total Classes=30<br>4<br>5<br>6<br>3<br>5<br>7                    | CC-12: Poetry (Modern Period unit 1)<br>4) Jamil wa Buthain: Zahāwī<br><br>DSE2: Elementary knowledge of Al-Quran & Al-Hadeeth Literature.<br><br><b>Al-Qur'an (Holy Qur'an)</b><br>1) Detailed History of revelation and compilation of Holy Qur'an (Tārikh Nuzul al-Qur'an wa Jao'uhu wa al-Ihtifaz bihi Mufassilan)<br>2) Tathir al-Qur'an al-Karim 'ala al-Lugha al-Arabiyya wa Hayāt al-Arab al-Ijtimā'iyyah (The impact of Holy Qur'an on Arabic Language and social life of Arabs)<br>3) Khulāsa al-Suwar al-Taliya wa al-Fikrah al-Ra'isiyya fiha (Conclusion and Central Ideas of the following Chapters): Al-Mā'ida, Al-Kahf, Al-Hujrāt<br>4) Ma'lumāt al-Qur'an (Knowledge of the Holy Qur'an):<br>a) Shān al-Nuzul, Surah Makkiya Madniyya, al-Mufassirun min al-Sahāba (RA)<br>b) Al-Istalahāt: al-Nasikh, al-Mansukh, al-Muhkam, al-Mutashābih, al-Tahrif | Total Classes=10<br>10<br><br><b>Total Classes=60</b><br><b>(30)</b><br>5<br>5<br>5<br>7<br>8 |
| CC-2: Arabic Prose (Islamic & Medieval) (Part-A)<br>d) Khutba al-Nabi (PBUH) fi Hajja al-Wadā' (The Last Sermon of the Prophet PBUH)  | Total Classes=10<br>10   | SEC1: Translation & Composition<br><b>Unit 1: Translation</b><br>1) Kinds of Sentences: Nominal, Verbal, Conditional, Structural, Subject and Predicate, Places where Subject comes first, Places where Predicate comes first<br>2) Exercises of Letter writing on different topics and Application writing in Arabic   | Total Classes=40<br>30<br>10                                      | <b>Al-Hadīth (Hadīth)</b><br>1) The Hadīth and its History of compilation and preservation in the following periods: Prophet's period, Umayyad period & Abbasid period<br>2) Life and work of following Muhaddithīn in the field of Hadīth: Imām Bukhārī, Imām Muslim, Imām Abu Da'ud, Imām Nasa'i, Imām Ibn-i-Māja, Imām Tirmidhi (RA)<br>3) History of publishing and teaching of Hadīth in India<br>4) Life and contribution of Abdul Haq Muhaddith Dehlawi and Shah Waliyullah Dehlawi in serving the field of Hadīth   | <b>(30)</b><br>6<br>14<br>5<br>5  |
| CC-1A: A. Hist. of Arabic Literature (from Pre- Islamic to Umayyad Period 500- 750 A. D.), Gram. & Translation<br><b>C: Grammar &amp; Translation</b><br>(a) Words; Noun, Verb & Particles<br>(b) Definite & indefinite Article<br>(c) Gender; Masculine & Feminine<br>(d) Number: Singular, Dual & Plural<br>(e) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb<br>(f) Simple Verbs (Mujarrad Verbs)<br>(g) Pronouns and Its Kinds<br>(h) Possessive compound (Genitive Construction)<br>(i) Subject and Predicate (Nominative Sentences)                       | Total Classes=30<br>3<br>2<br>1<br>4<br>9<br>2<br>4<br>2<br>3      | CC-1C: Prose (Islamic, Medieval & Modern Period)<br>5. Ahmad Amin: Al-din al-Sina'i (Artificial Religion)<br><br>SEC1: Grammar, translation & latter writing<br>a) Nominal Sentences, Verbal Sentences, Conditional Sentences, the particles that resembles verbs, Defective Verbs, Hāl and Dhū al-Hāl (Adjective of Condition), Adverb of Clarification<br>b) Letter Writing (Official, Educational, Personal and etc. | Total Classes=12<br>12<br><br><b>Total Classes=40</b><br>25<br>15 | SEC3: Specific literary feature of modern Arabic Literature<br><br>DSE-1A: Rhetoric & Prosody:<br>b) Prosody and its kinds  | <b>Total Classes=30</b><br>30   |

| Sem-II (Hons. & Genl)   |                  | Sem-IV (Hons. & Genl)  |                  | Sem-VI (Hons. & Genl)                                       | No. of Lecture   |
|---|------------------|--|------------------|---|------------------|
| CC-3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.), Gram. & Translation   | Total Classes=30 | CC-8: Poetry (Abbasid & Fatimid)   | Total Classes=15 | CC-13: Prose (Modern Period Unit -II)                       | Total Classes=10 |
| B. Grammar & Translation  |                  | a) Abul Alā Ma'rri: Ala Fi Sabīl al-Majd Mā Ana Fā'il  | 15               | 2) Accident: Naguib Mahfouz                                 | 10               |
| (a) Intransitive and Transitive Verbs   | 5                | CC-9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation                         | Total Classes=30 | CC-14: Poetry (Modern Period Unit -II)                      | Total Classes=15 |
| (b) The Particles which introduce the verb in jussive case  | 2                | 2: Grammar based Translation on the prescribed items.  |                  | 3) Lap of Mother: Rashid Salim al-Khoury                    | 15               |
| (c) The Particles which introduce the verb in accusative case   | 2                | c) Hāl and Dhū al-Hāl (Adjective of Condition)   | 4                | DSE-4: Translation, Essay Writing, Terminology & Vocabulary | Total Classes=60 |
| (d) Infinitive (Gerund) and derivative nouns: Active Participle, Passive Participle, Locative noun, utilitarian noun, comparative and superlative, hyperbolic participle and resembling participle, | 13               | d) Adverb of Clarification   | 4                | A) Grammar & Translation:                                   |                  |
| (e) Case: Nominative, Accusative & Genitive   | 1                | e) Declinable and indeclinable   | 4                | 1) Number and countable Noun                                | 18               |
| (f) The particles that resembles verbs  | 3                | f) Diptotes  | 8                | 2) Exclusion mustathnā mustathnā minhu                      | 9                |
| (g) Defective verbs   | 4                | g) Conditional particles   | 6                | 3) The followers  | 8                |
| CC-4: Arabic Prose (Islamic & Medieval) (Part-B)  | Total Classes=20 | h) Categorical negative lā   | 4                | B) Essay Writing in Arabic (Narrative & Descriptive Types)  | 15               |
| d) Baina Qādin Waqur wa Dhubābin Jasur (Between a dignified judge and daring fly)   | 10               | CC-10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups                             | Total Classes=12 | C) Terminology & Vocabulary                                 | 10               |
| e) Ash'ab wa al-Bakhīl (Ash'ab and the miser)   | 10               | C: Essay Writing in Educational, Social, Political & Scientific aspects  | 12               |   |                  |
| CC-1B: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.), Grammar & Translation   | Total Classes=30 | SEC2: Translation & Interpretation (from English into Arabic & vice versa from Newspapers) & Communicative Skill:        | Total Classes=40 |   |                  |
| (a) The Particles which introduce the verb in jussive case  | 3                | 1) Translation from Arabic and English Newspaper: Scientific, Political, Social and economic                             | 25               |   |                  |
| (b) The Particles which introduce the verb in accusative case   | 3                | 2) Conversation and speech in Arabic language on any scientific topic  | 15               |   |                  |
| (c) Demonstrative Pronoun   | 4                | CC1D: Poetry: (Islamic, medieval, & Modern Period)   | Total Classes=20 |   |                  |
| (d) Relative Pronoun  | 4                | 1) Hafiz Ibrahim: Condition of Arabic Language   | 10               |   |                  |
| (e) Active Participle, Passive Participle, Noun and adjective   | 6                | 6: Abul Alā Ma'rri: Ala Fi Sabīl al-Majd   | 10               |   |                  |
| (f) Case: Nominative, Accusative & Genitive   | 2                | SEC2: Grammar, translation & latter writing  | Total Classes=40 |   |                  |
| (g) Prepositions  | 2                | a)   |                  |   |                  |
| (h) Interrogative particles   | 3                | 1) Exclusion   | 7                |   |                  |
| (i) Conditional particles   | 3                | 2) Categorical negative lā   | 5                |   |                  |
|   |                  | 3) Features of Stem-Forms: If'āl, Taf'il, Istif'āl, Mufā'ala & Ifti'āl   | 13               |   |                  |
|   |                  | b) Essay Writing: Visit of the popular city, popular Library, and zoo and article on personality whom you like very much | 15               |   |                  |





DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN OF PRATICK KABIRAJ (2020-2021)

| MONTH     | SEM -I ( H )   | NO. OF LECTURE | SEM-III(H)  | NO. OF LECTURE | SEM-V (H)   | NO. OF LECTURE |
|-----------|--|----------------|---|----------------|---|----------------|
| JULY      | CC-1<br>UNDERSTANDING THE STRUCTURE AND CONSTRUCTION OF NEWS ORGANIZING A NEW STORY<br>UNIT-3  | 8              | CC-6<br>HISTORY OF TELEVISION, INVENTION TO TELECAST<br>UNIT-1  | 6              | CC-11<br>MEDIA AND INTERNATIONAL COMMUNICATION A BRIEF OVERVIEW<br>UNIT-1   | 11             |
| AUGUST    | CC-1<br>NEWS WORTHINESS, PRINCIPLE OF NEW SELECTION AND STRUCTURE OF NEWS WRITING<br>UNIT-3  | 7              | CC-6<br>TELEVISION IN INDIA NATIONWIDE NETWORK FORMATION, BCI, COMMUNITY TELEVISION, SIT, PSB<br>UNIT-1   | 14             | CC-11<br>PROPAGANDA IN THE INTER WAR YEARS, NAZI PROPAGANDA, RADIO AND INTERNATIONAL COMMUNICATION<br>UNIT-1<br>COLD WAR<br>UNIT-2          | 11             |
| SEPTEMBER | CC-1<br>SOURCE OF NEWS ,USE OF ARCHIVES,AND INTERNET<br>UNIT-3   | 4              | CC-6<br>DIFFERENT TYPES OF TV CHANNELS, DD VS SATELLITE CHANNEL<br>UNIT-2<br>BASIC CAMERA SHOTS<br>UNIT-3                                       | 9              | CC-11<br>VIETNAM WAR,USSR,RADIO FREE EUROPE, RADIO LIBERTY,VOICE OF AMERICA,COMMUNICATION DEBATES<br>UNIT-2                                 | 15             |
| OCTOBER   | CC-1<br>DIFFERENT MEDIUM A COMPARISION,PRINCIPLE OF SOFT WRITING<br>UNIT-4   | 4              | CC-6<br>CAMERA ANGLE, MOVEMENT,VISUAL GRAMMAR,FOCUSING<br>VISUAL PERSPECTIVE<br>UNIT-3  | 8              | CC-11<br>NWICO,UNESCO,NAM,MCBRIDE COMMISSION,NORTH-SOUTH,POOR-RICH<br>UNIT-2  | 8              |
| NOVEMBER  | CC-1<br>DIFFERENCE BETWEEN DIFFERENT MEDIUM,CITIZEN JOURNALISM<br>UNIT-4<br>CC-2<br>HYPODERMIC NEDDLE THEORY,AGENDA SETTING,PROPAGANDA,SPIRAL OF SILENCE<br>UNIT-4 | 14             | CC-6<br>TELEVISION NEWSROOM,WRITING TECHNIQUES,WRITING TECHNIQUES<br>PRACTICAL,ENG,EFP,NEWS ROOM PERSONAL DUTIES AND RESPONSIBILITIES<br>UNIT-4 | 15             | CC-11<br>RISE OF AL JAZEERA, THE GULF WARS,CNN,EMBEDDED JOURNALISM,9/11 INCIDENT<br>UNIT-3<br>CULTURER IMPERIALISM,MEDIA HEGEMONY<br>UNIT-4 | 11             |

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| SEM-II (H) | NO. OF LECTURE  | SEM-IV (H) | NO. OF LECTURE  | SEM-VI (H) | NO. OF LECTURE  |    |
|------------|---|------------|---|------------|---|----|
| DECEMBER   | CC-2<br>CULTIVATION<br>ANALYSIS,ALTERNATIVE<br>PARADIGM<br>UNIT-4   | 6          | CC-6<br>TELEVISION PROGRAMME,<br>CHARACTER OF TELEVISION<br>NEWS, NEWS AS EVENT<br>AND CONSTRUCTION<br>UNIT-5                             | 8          | CC-11<br>MEDIA AND THE GLOBAL<br>MARKET,MEDIA<br>CONGLOMERATES LOCAL AND<br>GLOBAL PROGRAMMES<br>UNIT-5   | 4  |
| JANUARY    | CC-3<br>THE NEWS PAPER NEWS<br>ROOM,ORGANIZATIONAL<br>SETUP,EDITORIAL<br>DEPARTMENT,HEADLINES<br>WRITING,TYPOGRAPHY,<br>PRACTICAL-STYLE SHEET<br>UNIT-3 | 12         | CC-8<br>CONCEPT OF NEW<br>MEDIA,INFORMATION<br>SOCIETY,CMC,NETWORK<br>SOCIETY<br>UNIT-1   | 10         | CC-14<br>MEDIA MANAGEMENT CONCEPT<br>AND PERSPECTIVE,ORIGIN AND<br>GROWTH,FUNDAMENTALS OF<br>MANAGEMENT,MANAGING<br>SCHOOL OF THOUGHT<br>UNIT-1   | 11 |
| FEBRUARY   | CC-3<br>PHOTO EDITING,ROLE AND<br>RESPONSIBILITY,EDITING<br>PERSONALITY,EDITORIAL<br>PAGE DESIGN,STRUCTURE<br>PURPOSE<br>UNIT-3                         | 9          | CC-8<br>DIGITAL JOURNALISM,<br>REMIEDIATION AND NEW<br>MEDIA<br>TECHNOLOGY,ONLINE<br>COMMUNITIES,UGC,<br>WEB 2.0<br>UNIT-2                | 10         | CC-14<br>MEDIA INDUSTRY ISSUE AND<br>CHALLENGES,TAM,TRP,BARC,HITS,<br>MARKET SHIFTS,OWNERSHIP<br>PATTERN,GOVERNMENT MEDIA<br>INTERFACE<br>UNIT-2  | 14 |
| MARCH      | CC-3<br>MIDDLES ,LETTER TO THE<br>EDITOR,SPECIAL ARTICLE,<br>OPINION PIECES,OP.ED<br>UNIT-3   | 5          | CC-8<br>NETWORK<br>JOURNALISM,ALTERNATIVE<br>JOURNALISM<br>UNIT-2<br>DIGITALIZATION OF<br>JOURNALISM<br>UNIT-3                            | 7          | CC-14<br>STRUCTURE OF NEWS<br>MEDIA,ORGANIZATION IN<br>INDIA,ROLE AND RESPONSIBILITY<br>AND HIERARCHY , WORKFLOW<br>AND NEEDS OF<br>MANAGEMENT,SHIFT<br>PATTERN,CIRCULATION AND<br>GUIDE LINE<br>UNIT-3 | 12 |
| APRIL      | CC-3<br>WEEK-END PULL OUTS ,<br>SUPPLEMENTS,<br>BACKGROUNDERS,COLUMNS<br>OR COLUMNISTS<br>UNIT-4  | 4          | CC-8<br>AUTHORSHIP IN DIGITAL<br>AGE,PIRACY, COPY<br>WRITE,COPY LEFT AND<br>OPEN SOURCE,DIGITAL<br>ARCHIVES,NEW MEDIA<br>ETHICS<br>UNIT-3 | 12         | CC-14<br>MEDIA ECONOMICS,STRATEGIC<br>MANAGEMENT,CAPITAL<br>INFLOW,BUDGETING,FINANCIAL<br>MANAGEMENT,PERSONAL<br>MANAGEMENT<br>UNIT-4   | 12 |

*Pratish Kabiraj*

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|------|--|---|---|----|---|---|
| MAY  | CC-4<br>INDIA TELEGRAPY ACT,PRESS<br>AND BOOK REGISTRATION<br>ACT,ADAMS<br>GAG,VARNACULAR PRESS<br>ACT<br>UNIT-4 | 5 | CC-8<br>PRACTICAL WEB<br>WRITING,LINEAR AND NON<br>LINEAR<br>WRITING,CONTEXTUALIZED<br>JOURNALISM,STORY<br>TELLING STRUCTURES<br>UNIT-4 | 13 | CC-14<br>MARKET FORCES,FDI<br>UNIT-4<br>CIRCULATION MANAGEMENT<br>PROCESS AND EVALUATION,<br>MEDIA AUDIENCES AND<br>CREDIBILITY<br>UNIT-5 | 7 |
| JUNE | CC-4<br>ADOPTION OF NEW<br>EDITORIAL<br>POLICY,CORPORATIZATION<br>OF INDIAN NEWS PAPER<br>UNIT-4                 | 5 | CC-8<br>VISUAL AND CONTENT<br>DESIGN, WEBSITE<br>PLANNING,BLOGGING<br>UNIT-5  | 8  | CC-14<br>PAID NEWS ,LOBBYING ,PRESSURE<br>GROUP INFLUNCE INDIAN AND<br>INTERNATIONAL MEDIA GIANTS<br>UNIT-5                               | 4 |
|      |  |   |   |    |   |   |

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**Department of Sanskrit**  
**SuriVidyasagar College**  
**Teaching Plan [July, 2020 to Dec, 2020]**

| Name of the Teacher                  | Stream       | SEM-I  |              | SEM-III   |              | SEM-V   |              |
|--------------------------------------|--------------|--|--------------|---|--------------|---|--------------|
|                                      |              | Topic  | No. of Class | Topic   | No. of Class | Topic   | No. of Class |
| <b>Prof. Shyama-prasad Mukherjee</b> | <b>Hons.</b> | CC-1 Classical Sanskrit Literature(Poetry):<br>Section-A (I)Raghuvamśa:<br>Canto-XIV (Verses: 31-68) | <b>22</b>    | CC-6 Poetics and Literary Criticism<br>Section-B (I)<br>Sāhityadarpaṇa –<br>Chapter-X (Śleṣa, Upamā,<br>Rūpaka, Utprekṣā,<br>Atiśayokti, Dṛṣṭānta,<br>Nidarśanā&Arthāntarany<br>āsa )   | <b>20</b>    | CC-12 Sanskrit Grammar:<br>Section- B Samāsa -<br>(Selected Sūtras upto<br>Dvandva Compound)  | <b>35</b>    |
|                                      | <b>Gen.</b>  |  |              |   |              | DSE-1A<br>Philosophy, Religion and<br>Culture in Sanskrit<br>Tradition A. The History of<br>Vedic Literature (30<br>classes) B. The Social,<br>Religious and Cultural<br>Aspects as reflected in the<br>Purāṇas   | <b>25</b>    |
| <b>Dr. Dinesh Kr. Das</b>            | <b>Hons.</b> | CC-1 Classical Sanskrit Literature(Poetry):<br>Section-B<br>Kirātārjunīya - Canto I (1-25<br>Verses) | <b>34</b>    | CC-6 Poetics and Literary Criticism:<br>Section-A (I)<br>Vāmana'skāvyālamkārasū<br>travṛtti – First<br>Adhikaraṇa-- (Chapters –<br>I, II & III) (II) Metrics – A<br>General Concept of<br>Sanskrit Metres and the<br>definitions of the | <b>35</b>    | CC -11 Vedic Literature:<br>Section-A Ṛgvedasamhitā<br>–( Agnisūkta-(2/6) ,<br>Indrasūkta- (2/12),<br>Akṣasūkta-(10/34) ,<br>Devīsūkta-(10/125)<br>Section-B (10 classes)<br>Declension of a-<br>stems,Vedic Subjunctive,<br>Vedic Infinitive,The Vedic | <b>36</b>    |

|                                    |              |   |           |   |           |   |           |
|------------------------------------|--------------|---|-----------|---|-----------|---|-----------|
|                                    |              |   |           | following Meters ---<br>(IndravajrāUpendravajrā,<br>Upajāti,<br>Vaṁśasthavila,Vasantatil<br>aka,<br>Mālinī&Mandākrāntā)             |           | Accent & Pada-pāṭha   |           |
|                                    | <b>Gen.</b>  |   |           |   |           | DSE-2A  |           |
| <b>Prof. Prodip<br/>Kr. Sarkar</b> | <b>Hons.</b> | CC-2 Critical Survey of Sanskrit<br>Literature:<br>VaidikaSāhitya<br>Purāṇa   | <b>10</b> | CC -5 Classical Sanskrit<br>Literature (Drāmā):<br>(I)Abhijñānaśakuntala (I-<br>V)  | <b>40</b> | DSE-2 Elements of<br>Linguistics – (I)Primitive<br>Indo-European, Division of<br>Indo-European, Discipli<br>Indo-Iranian<br>(Aryan),Emergence of<br>Indo-Aryan, ne Non-Aryan<br>Influence on Sanskrit,<br>Vedic and Classical<br>Specific Sanskrit. Elective<br>(II)Some Phonetic Laws<br>and Tendencies - Grimm’s<br>Law,Verner’sLaw,Grassma<br>nn’sLaw,Collitz’s Law,<br>Assimilation, Dissimilation<br>Metathesis, Prothesis,<br>Epenthesis,Anaptyxis and<br>Haplology | <b>40</b> |
|                                    | <b>Gen.</b>  |   |           | CC-3 Discipline -<br>1(Sanskrit) Sanskrit<br>Drama:<br>Section-A<br>(I)Abhijñānaśakuntala (I-<br>V)                                 | <b>35</b> |   |           |
| <b>Prof.<br/>Biswajit<br/>Raj</b>  | <b>Hons.</b> | CC-2 Critical Survey of Sanskrit<br>Literature<br>Section-B The History of<br>Sanskrit Grammar. The History<br>of Indian Philosophy | <b>26</b> | SEC-1 Basic Sanskrit:<br>Section-A Brāhmī Script<br>Writing<br>Section-A Brāhmī Script<br>Writing Section-E<br>Brahmadatta-karkaṭa- | <b>35</b> | DSE-1 Dramaturgy --<br>Sāhityadarpaṇa - Chapter-<br>VI<br>(Rūpaka,Nāndī,Vṛttis(with<br>outAṁgas),Prastāvanā,<br>ArthaprakDisciplīrti,   | <b>56</b> |

|                                    |              |   |           |  |           |   |              |
|------------------------------------|--------------|---|-----------|--|-----------|---|--------------|
|                                    |              |   |           | kathā-(Aparīkṣitakāraka)<br>–from Pañcatantra  |           | Arthopakṣepaka, Patākāsth<br>ānakas, Kārya, Avasthā, ne<br>Sandhi (without Aṃgas)<br>& Nāṭikā   |              |
|                                    | <b>Gen.</b>  | CC -1 Discipline -1(Sanskrit)<br>Sanskrit Poetry Kirātārjunīya -<br>Canto I (1-25 Verses)   | <b>25</b> |  |           |   |              |
| <b>Prof. Kakali<br/>Ch. Mishra</b> | <b>Hons.</b> | CC-1 Classical Sanskrit<br>Literature(Poetry):<br>Section-B The History of<br>Sanskrit Literature.<br>(Aśvaghoṣa, Kālidāsa, Bhāravi,<br>Māgha, Bhaṭṭi, Śrīharṣa)        | <b>34</b> | CC-3 Discipline -<br>1(Sanskrit) Sanskrit<br>Drama:<br>CC -5 Classical Sanskrit<br>Literature<br>(Drāmā)Section-A<br>Section-B (I)The History<br>of Sanskrit Literature<br>(Drāmā) (Bhāsa, Kālidāsa,<br>Śūdraka, Viśākhadatta,<br>Śrīharṣa, Bhavabhūti,<br>Bhaṭṭanārāyaṇa) | <b>50</b> | CC -11 Vedic Literature:<br>Section-C Iśopaniṣad -<br>Whole   | <b>11</b>    |
|                                    | <b>Gen.</b>  | CC -1 Discipline -1(Sanskrit)<br>Sanskrit Poetry Section-B (II)<br>The History of Sanskrit<br>Literature.<br>(Aśvaghoṣa, Kālidāsa, Bhāravi,<br>Māgha, Bhaṭṭi, Śrīharṣa) | <b>35</b> | Section-B (I)The History<br>of Sanskrit Literature<br>Drāmā (Bhāsa, Kālidāsa<br>, Śūdraka, Viśākhadatta,<br>Śrīharṣa, Bhavabhūti,<br>Bhaṭṭanārāyaṇa)   | <b>21</b> | SEC-III Sanskrit<br>Composition A. Essay B.<br>Hāsvidyakathā C.<br>Comprehension  | <b>35</b>    |
| <b>Prof.<br/>Munmun<br/>Mishra</b> | <b>Hons.</b> | Section-A<br>RāmāyaṇaMahābhārat-a CC-2<br>Critical Survey of Sanskrit<br>Literature   | <b>26</b> | CC-7 Indian Social<br>Institution and Polity:<br>Section-A Manusamhitā –<br>Chapter-VII State Politics-<br>(1-15), Upāyacatuṣṭaya-<br>(106-110) & Sādguṇya –<br>(161-170)  | <b>25</b> | cc-12 Sanskrit Grammar:<br>Section-A The Concept of<br>the following Saṃjñās:<br>Sūtra, Vārtika, Bhāṣya, Karm<br>appravacanīya, Nipāta, Gati,<br>Upasarga, Guṇa, Vṛddhi, Ṭi,<br>Ghi, Ghu, Nadī, Upadhā and<br>Samprasāraṇa. | <b>20</b>    |
|                                    | <b>Gen.</b>  | CC -1 Discipline -1(Sanskrit)<br>Sanskrit Poetry: Section-A<br>(I)Raghuvamśa: Canto-XIV<br>(Verses: 31-68) (I)  | <b>25</b> | CC-3 Section-B (20<br>classes) (I)The History of<br>Sanskrit Literature Drāmā<br>(Bhāsa, Kālidāsa<br>, Śūdraka, Viśākhadatta,<br>Śrīharṣa, Bhavabhūti,   | <b>20</b> | GE-I : Indian Social<br>Institution and Polity<br>Section-A Manusamhitā –<br>Chapter-VII State Politics-<br>(1-15), Upāyacatuṣṭaya-<br>(106-110) & Sādguṇya –   | <b>30+33</b> |

|   |             |  |           |  |              |  |              |
|---|-------------|--|-----------|--|--------------|--|--------------|
|   |             |  |           | Bhaṭṭanārāyaṇa)  |              | (161-170) Section-B.<br>Arthaśāstra-<br>(Dūtapraṇidhi)   |              |
| <b>Prof.<br/>Chandrani<br/>Agarwala</b> | <b>Gen.</b> | CC -1 Sanskrit Poetry<br>Section-A (25 classes)<br>Kirātārjunīya - Canto I (1-25<br>Verses<br>Section-B (35 classes)) (II) The<br>History of Sanskrit Literature.<br>(Aśvaghoṣa, Kālidāsa, Bhāravi,<br>Māgha, Bhaṭṭi, Śrīh arṣa) | <b>45</b> | CC-3 (Sanskrit) Sanskrit<br>Drama Section-A<br>(I) Abhijñānaśakuntala (I-<br>V)<br>SEC-I<br>Yogasūtra of Patañjali<br>Yogasūtra –I (1,2 & 12-16)<br>Yogasūtra –II<br>(29,30,32,46,49 & 50) | <b>45+40</b> | DSE-II<br>Literary Criticism I) Metrics<br>– A General Concept of<br>Sanskrit Metres and the<br>definitions of the<br>following Meters --<br>Indravajrā<br>Upendravajrā, Upajāti,<br>Varṇasasthāvila, Vasantatila<br>ka, Mālinī & Mandākrāntā<br>(I) Sāhityadarpaṇa –<br>Chapter-X (30 classes)<br>(Śleṣa, Upamā, Rūpaka,<br>Utprekṣā,<br>Atiśayokti, Drṣṭānta,<br>Nidarśanā &<br>Arthāntaranyāsa) | <b>33+32</b> |

**Department of Sanskrit**  
**SuriVidyasagar College**  
**Teaching Plan [January, 2021 to June, 2021]**

| Name of the Teacher                  | Stream       | SEM-II   |              | SEM-IV  |              | SEM-VI   |              |
|--------------------------------------|--------------|--|--------------|---|--------------|--|--------------|
|                                      |              | Topic  | No. of Class | Topic   | No. of Class | Topic  | No. of Class |
| <b>Prof. Shyama-prasad Mukherjee</b> | <b>Hons.</b> | CC-4 Self Management in the Gītā: Section-A Śrīmadbhagavadgītā (Adhyāya-4 th)(Whole)   | <b>35</b>    | CC-10 Sanskrit and World Literature Section-A (I) Sanskrit Studies Across the World- William Jones, Charles Wilkins, H.Wilson, Max Muller, J.G.Buhler, Sri Aurobindo, DayānandaSarasvatī, HaridāsaSiddhāntavāgīśa, ŚrījīvaNyāyatīrtha,NityānadaSmṛtītīrtha, Kshitish Chandra Chatterji, Roma Chaudhuri, PañcānanaTarkaratna&RamaranjanMukherji) | <b>54</b>    | cc-14 Sanskrit Composition and Communication (A) Case-endings and Cases-(From First Case-ending and Nominative case to Fifth case ending and Ablative case as in Siddhāntakaumudī (40 classes) (B)Translation and Comprehension. (C) Reporting | <b>40</b>    |
|                                      | <b>Gen</b>   | CC-2 Discipline -1(Sanskrit) Sanskrit Prose: Section-A Daśakumāracarita-(Dvijopakṛti)--- As in Sanskrit Pāṭhamālā, B.U.  | <b>32</b>    | Basic Sanskrit – Part-I Section-D Brahmaḍattakarkaṭakathā-(Aparīkṣitakāraka)-Pañcatantra  | <b>14</b>    |  |              |
| <b>Dr. Dinesh Kr. Das</b>            | <b>Hons.</b> | CC -3 Classical Sanskrit Literature(Prose) Course Section-A Śukanāsopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. ( evaṃsamatikrāmatsu----- bhrātaraucchedyāḥ) | <b>17</b>    | CC-9 Modern Sanskrit Literature Core Course Section-A (II)Cipiṭakacarvaṇa-ŚrījīvaNyāyatīrtha  | <b>30</b>    | CC -13 Indian Ontology and Epistemology Core Course (A)Tarkasaṃgraha – (saptapadārtha, karaṇa, pratyakṣa and sannikarṣa) (B)Vedāntasāra - (Excluding the last portion beginning with   | <b>65</b>    |



|  |              |  |           |  |           | Mahāvākyaṛtha).   |           |
|--|--------------|--|-----------|--|-----------|---|-----------|
|  | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose:<br>The History of Sanskrit<br>Literature – (Historical Kāvya)  | <b>25</b> | Basic Sanskrit – Part-I<br>Section-B (10 classes)<br>Conjugations – (Bhū,<br>Paṭh,Gam,<br>Dṛś,Sev,Labh,Pac,Vṛt,<br>Kṛ,Dā, Śru, Jñā - laṭ,<br>loṭlañ,liñ&lṛṭ)   | <b>12</b> |   |           |
| <b>Prof.<br/>Prodip Kr.<br/>Sarkar</b> | <b>Hons.</b> | CC-4 Self Management in the<br>Gītā: Section-B Selected<br>ślokas from the Gītā<br>1.Meditation -Adhyāya-VI (10-<br>26) II. Diet Control-Adhyāya-<br>XVII (8-10) III. Rajoguṇa-<br>Adhyāya III (36-40) | <b>28</b> | SEC-2 Spoken<br>SanskritPolitical Thought<br>in Sanskrit Literature<br>I.Mudrārākṣasa–(Acts-I &<br>II) II. Arthaśāstra-<br>Śāsanādhikāra(20<br>classes)  | <b>25</b> | DSE-3 Fundamentals of<br>Āyurveda (A)Concept of<br>AṣṭāṅgĀyurveda. Discipli<br>(B)Taittirīyopanīṣad –<br>Bhṛguballī- (1-3) (30<br>classes)  | <b>33</b> |
|  | <b>Gen.</b>  |  |           | CC -4 Discipline -<br>1(Sanskrit ) Sanskrit<br>Grammar:<br>Section-B Potential<br>Participles, Nominal<br>Suffixes (Matvarthīya),<br>Causative Verbs,<br>Desiderative Verbs,<br>Frequentative Verbs,<br>Indeclinable Past<br>Participles, Use of<br>Ktvā&Lyap. | <b>22</b> | GE-II Ethical Issues in<br>Sanskrit Literature (I)<br>Hitopadeśa –Mitrālābha<br>(up to verse no.50) (30<br>classes) (II)Pañcatantra<br>Mitrabheda Katha<br>(Gomāyudundubhikathā)<br>(30classes) | <b>55</b> |
| <b>Prof.<br/>Biswajit<br/>Raj</b>      | <b>Hons.</b> | CC -3 Classical Sanskrit<br>Literature(Prose)<br>Section-B Daśakumāracarita-<br>(Rājavāhanacarita)--- As in<br>Sanskrit Pāṭhamālā ,BU  |           | CC-9 Modern Sanskrit<br>Literature Core Course<br>Section-A Survey of<br>Modern Sanskrit<br>Literature in Bengal   |           | DSE-4<br>Indian system of Logic<br>Anumānakhaṇḍa&Upamā<br>nakhada of<br>Tarkasaṁgraha   |           |
|  | <b>Gen.</b>  |  |           | CC -4 Discipline -<br>1(Sanskrit ) Sanskrit<br>Grammar:<br>Section-A The Concept of<br>the following Saṁjñās:<br>Sūtra,Vārtika,Bhāṣya,Kar  | <b>35</b> | DSE-1 From Discipline-<br>1B(Sanskrit) DSE-1B Select<br>from DSE Group: Literary<br>Criticism (30 classes)<br>I)Metrics – A General<br>Concept of Sanskrit                                      | <b>65</b> |

|                                |              |   |           |   |           |  |           |
|--------------------------------|--------------|---|-----------|---|-----------|--|-----------|
|                                |              |   |           | mapravacanīya, Nipāta, Gati, Upasarga, Guṇa, Vṛddhi, Ṭi, Ghi, Ghu, Nadī, Upadhā and Samprasāraṇa.   |           | Metres and the definitions of the following Meters --<br>Indravajrā<br>Upendravajrā, Upajāti, Varṁsasthavila, Vasantatila ka, Mālinī & Mandākrāntā<br>(I) Sāhityadarpaṇa – Chapter-X (30 classes)<br>(Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti, Drṣṭānta, Nidarśanā & Arthāntaranyāsa) |           |
| <b>Prof. Kakali Ch. Mishra</b> | <b>Hons.</b> | CC -3 Classical Sanskrit Literature(Prose)Section-C (I)The History of Sanskrit Literature (Prose). (Subandhu, Daṇḍin, Bāṇabhaṭṭ)  | <b>32</b> | CC -8 Indian Epigraphy and Chronology Section-A (I) Epigraphy-The History of Epigraphical study in India. Section-B Śilālekha- (a)Rudradāmanśilālīpi (b)Meherauli Iron Pillar Inscription of Candra | <b>33</b> |  |           |
|                                | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit) Sanskrit Prose: Section-B (I)The History of Sanskrit Literature (Prose). (Subandhu, Daṇḍin, Bāṇabhaṭṭa)  | <b>31</b> | Basic Sanskrit – Part-I Section-A Declensions (a-kārānta, i-kārānta, u-kārānta and ṛ-kārānta - Masculine, Feminine & Neuter, Pronouns & Number) Translation   | <b>10</b> | SEC-IV Moral Values In Sanskrit Literature Section-A Dānavīraḥ Karṇaḥ (from Karṇabhāra) Section-B Śāśakasimhakatā (from Pañcatantra)   | <b>40</b> |
| <b>Prof. Munmun Mishra</b>     | <b>Hons.</b> | CC -3 Classical Sanskrit Literature(Prose) Section-C The History of Sanskrit Literature (Fables) (Pañcatantra, Hitopadeśa, Vetāl apañcaviṁśati, Siṅhāsana dvātrīṁśikā, Puruṣaparīkṣā) | <b>32</b> |   |           |  |           |
|                                | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit) Sanskrit Prose: The History of Sanskrit  | <b>25</b> | CC -4 Discipline - 1(Sanskrit ) Sanskrit Grammar:   | <b>14</b> | DSE-II (I) Sāhityadarpaṇa – Chapter-X (Śleṣa, Upamā,   | <b>30</b> |

|   |             |   |           |   |           |   |              |
|---|-------------|---|-----------|---|-----------|---|--------------|
|   |             | Literature (Fables)<br>(Pañcatantra, Hitopadeśa, Vetāl<br>apañcaviṃśati,<br>Siñhāsanadvātrimśikā,<br>Puruṣaparīkṣā) |           | Section-C<br>Comprehension  |           | Rūpaka, Utpreksā,<br>Atiśayokti, Drṣṭānta,<br>Nidarśanā &<br>Arthāntaranyāsa)<br><br>SEC-IV Vedic Literature<br>Section-A Ṛgvedasamhitā<br>–( Agnisūkta-(2/6) ,<br>Indrasūkta-(2/12),<br>Akṣasūkta-(10/34) ,<br>Devīsūkta-(10/125)<br>Section B Iśopanīṣad  | <b>32+12</b> |
| <b>Prof.<br/>Chandrani<br/>Agarwala</b> | <b>Gen.</b> | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose Section-A (30<br>classes) Daśakumāracarita-<br>(Dvijopakṛti)         | <b>34</b> | SEC-II Indian Theatre<br>Drāmatygy --<br>Sāhityadarpaṇa -<br>Chapter- VI<br>(Rūpaka, Nāndī, Vṛttis (wit<br>hout Aṅgas), Prastāvanā, A<br>rthaprakṛti, Arthopakṣepa<br>ka, Patākāsthānakas, K<br>ārya, Avasthā, Sandhi<br>(without Aṅgas) & Nāṭikā | <b>45</b> | DSE-II<br>Literary Criticism<br>I) Metrics – A General<br>Concept of Sanskrit<br>Metres and the definitions<br>of the following Meters --<br>Indravajrā<br>Upendravajrā, Upajāti,<br>Varṃsasthavila, Vasantatila<br>ka, Mālinī & Mandākrāntā<br><br>GE-II Ethical Issues in<br>Sanskrit Literature (I)<br>Hitopadeśa – Mitralābha<br>(up to verse no.50)<br>(II) Pañcatantra<br>Mitrabheda Katha<br>(Gomāyudundubhikathā) | <b>30+62</b> |

*Chyavanprasad Muleja*  
(Full Signature of the Examiner)

*Biswajit Raj*

**Department of Sanskrit**  
**SuriVidyasagar College**  
**Teaching Plan [July, 2021 to Dec, 2021]**

| Name of the Teacher                  | Stream       | SEM-I  |              | SEM-III   |              | SEM-V   |              |
|--------------------------------------|--------------|--|--------------|---|--------------|---|--------------|
|                                      |              | Topic  | No. of Class | Topic   | No. of Class | Topic   | No. of Class |
| <b>Prof. Shyama-prasad Mukherjee</b> | <b>Hons.</b> | CC-1 Classical Sanskrit Literature(Poetry):<br>Section-A (I)Raghuvamśa:<br>Canto-XIV (Verses: 31-68) | <b>30</b>    | CC-6 Poetics and Literary Criticism<br>Section-B (I)<br>Sāhityadarpaṇa –<br>Chapter-X (Śleṣa, Upamā,<br>Rūpaka, Utprekṣā,<br>Atiśayokti, Dṛṣṭānta,<br>Nidarśanā&Arthāntarany<br>āsa ) | <b>25</b>    | CC-12 Sanskrit Grammar:<br>Section- B Samāsa -<br>(Selected Sūtras upto<br>Dvandva Compound)  | <b>40</b>    |
|                                      | <b>Gen.</b>  |  |              |   |              | DSE-1A<br>Philosophy, Religion and<br>Culture in Sanskrit<br>Tradition A. The History of<br>Vedic Literature<br>B. The Social, Religious<br>and Cultural Aspects as<br>reflected in the Purāṇas | <b>33</b>    |
| <b>Dr. Dinesh Kr. Das</b>            | <b>Hons.</b> | CC-1 Classical Sanskrit Literature(Poetry):<br>Section-B<br>Kirātārjunīya - Canto I (1-25<br>Verses) | <b>34</b>    | CC-6 Poetics and Literary Criticism:<br>Section-A (I)<br>Vāmana'skāvyālaṃkārasū<br>travṛtti – First<br>Adhikaraṇa-- (Chapters –<br>I, II & III) (II) Metrics – A                      | <b>42</b>    | CC -11 Vedic Literature:<br>Section-A Ṛgvedasamhitā<br>–( Agnisūkta-(2/6) ,<br>Indrasūkta- (2/12),<br>Akṣasūkta-(10/34) ,<br>Devīsūkta-(10/125)<br>Section-B (10 classes)                       | <b>44</b>    |

|                                |              |  |           |   |           |   |           |
|--------------------------------|--------------|--|-----------|---|-----------|---|-----------|
|                                |              |  |           | General Concept of Sanskrit Metres and the definitions of the following Meters --- (IndravajrāUpendravajrā, Upajāti, Vaṁśasthavila,Vasantatīlaka, Mālinī&Mandākrāntā) |           | Declension of a-stems,Vedic Subjunctive, Vedic Infinitive,The Vedic Accent &Pada-pāṭha  |           |
|                                | <b>Gen.</b>  |  |           |   |           |   |           |
| <b>Prof. Prodip Kr. Sarkar</b> | <b>Hons.</b> | CC-2 Critical Survey of Sanskrit Literature: VaidikaSāhitya Purāṇa   | <b>13</b> | CC -5 Classical Sanskrit Literature (Drāmā): (I)Abhijñānaśakuntala (I-V)  | <b>55</b> | DSE-2 Elements of Linguistics – (I)Primitive Indo-European, Division of Indo-European, Discipline Indo-Iranian (Aryan),Emergence of Indo-Aryan, ne Non-Aryan Influence on Sanskrit, Vedic and Classical Specific Sanskrit. Elective (II)Some Phonetic Laws and Tendencies - Grimm’s Law,Verner’sLaw,Grassmann’sLaw,Collitz’s Law, Assimilation, Dissimilation Metathesis, Prothesis, Epenthesis,Anaptyxis and Haplology | <b>50</b> |
|                                | <b>Gen.</b>  |  |           | CC-3 Discipline - 1(Sanskrit) Sanskrit Drama: Section-A (I)Abhijñānaśakuntala (I-V)   | <b>42</b> |   |           |
| <b>Prof. Biswajit</b>          | <b>Hons.</b> | CC-2 Critical Survey of Sanskrit Literature Section-B The History of | <b>32</b> | CC-7 Indian Social Institution and Polity: Section-A Manuṣaṁhitā –  | <b>45</b> | DSE-1 Dramaturgy -- Sāhityadarpaṇa - Chapter-VI   | <b>56</b> |

|                                |              |  |           |   |           |   |           |
|--------------------------------|--------------|--|-----------|---|-----------|---|-----------|
| <b>Raj</b>                     |              | Sanskrit Grammar. The History of Indian Philosophy   |           | Chapter-VII State Politics- (1-15), Upāyacatuṣṭaya- (106-110) & Sāḍguṇya – (161-170)<br>SEC-1 Basic Sanskrit: Section-A Brāhmī Script Writing<br>Section-A Brāhmī Script Writing Section-E Brahmadatta-karkaṭa-kathā-(Aparīkṣitakāra) –from Pañcatantra |           | (Rūpaka,Nāndī,Vṛttis(without Aṃgas),Prastāvanā, ArthaprakDisciplīṛti, Arthopakṣepaka,Patākāsthānakas,Kārya,Avasthā, ne Sandhi(without Aṃgas) & Nāṭikā |           |
|                                | <b>Gen.</b>  | CC -1 Discipline -1(Sanskrit) Sanskrit Poetry Kirātārjunīya - Canto I (1-25 Verses)  | <b>25</b> |   |           |   |           |
| <b>Prof. Kakali Ch. Mishra</b> | <b>Hons.</b> | CC-1 Classical Sanskrit Literature(Poetry): Section-B The History of Sanskrit Literature. (Aśvaghōṣa,Kālidāsa,Bhāravi, Māgha,Bhaṭṭi,Śrīharṣa)        | <b>34</b> | CC-3 Discipline - 1(Sanskrit) Sanskrit Drama:<br>CC -5 Classical Sanskrit Literature (Drāmā)Section-A Section-B (I)The History of Sanskrit Literature (Drāmā) (Bhāsa, Kālidāsa, Śūdraka, Viśākhadatta, Śrīharṣa, Bhavabhūti, Bhaṭṭanārāyaṇa)            | <b>50</b> | CC -11 Vedic Literature: Section-C Iśopaniṣad - Whole   | <b>11</b> |
|                                | <b>Gen.</b>  | CC -1 Discipline -1(Sanskrit) Sanskrit Poetry Section-B (II) The History of Sanskrit Literature. (Aśvaghōṣa,Kālidāsa,Bhāravi, Māgha,Bhaṭṭi,Śrīharṣa) | <b>35</b> | Section-B (I)The History of Sanskrit Literature Drāmā (Bhāsa, Kālidāsa ,Śūdraka, Viśākhadatta, Śrīharṣa, Bhavabhūti, Bhaṭṭanārāyaṇa)  | <b>21</b> | SEC-III Sanskrit Composition A. Essay B. Hāsavidyakathā C. Comprehension  | <b>35</b> |
| <b>Prof. Munmun Mishra</b>     | <b>Hons.</b> | Section-A RāmāyaṇaMahābhārat-a CC-2 Critical Survey of Sanskrit Literature   | <b>26</b> | CC-7 Indian Social Institution and Polity: Section-B. Arthaśāstra- (Dūtapraṇidhi)   | <b>25</b> | cc-12 Sanskrit Grammar: Section-A The Concept of the following Saṃjñās: Sūtra,Vārtika,Bhāṣya,Karm apravacanīya,Nipāta,Gati, Upasarga,Guṇa,Vṛddhi,Ṭi,  | <b>20</b> |

|                                 |             |   |           |  |              |   |              |
|---------------------------------|-------------|---|-----------|--|--------------|---|--------------|
|                                 |             |   |           |  |              | Ghi,Ghu,Nadī,Upadhā and Samprasāraṇa.   |              |
|                                 | <b>Gen.</b> | CC -1 Discipline -1(Sanskrit) Sanskrit Poetry: Section-A (I)Raghuvamśa: Canto-XIV (Verses: 31-68) (I)   | <b>35</b> |  |              | GE-I : Indian Social Institution and Polity Section-A Manusamhitā – Chapter-VII State Politics- (1-15), Upāyacatuṣṭaya- (106-110) &Sādḡuṇya – (161-170) Section-B.(30 classes) Arthaśāstra- (Dūtapraṇidhi)  | <b>56</b>    |
| <b>Prof. Chandrani Agarwala</b> | <b>Gen.</b> | CC -1 Sanskrit Poetry Section-A (25 classes) Kirātārjunīya - Canto I (1-25 Verses Section-B (35 classes)) (II) The History of Sanskrit Literature. (Aśvaghōṣa,Kālidāsa,Bhāravi, Māgha,Bhaṭṭi,Śrīh arṣa) | <b>45</b> | CC-3 (Sanskrit) Sanskrit Drama Section-A (I)Abhijñānaśakuntala (I-V) SEC-I Yogasūtra of Patañjali Yogasūtra –I (1,2 &12-16) Yogasūtra –II (29,30,32,46,49 &50) | <b>45+40</b> | DSE-II Literary Criticism I)Metrics – A General Concept of Sanskrit Metres and the definitions of the following Meters -- Indravajrā Upendravajrā,Upajāti, Varṃsasthavila,Vasantatila ka, Mālinī & Mandākrāntā (I) Sāhityadarpaṇa – Chapter-X (30 classes) (Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti,Drṣṭānta, Nidarśanā & Arthāntaranyāsa) | <b>33+32</b> |

**Department of Sanskrit**  
**SuriVidyasagar College**  
**Teaching Plan [January, 2022 to June, 2022]**

| Name of the Teacher                 | Stream       | SEM-II  |              | SEM-IV  |              | SEM-VI   |              |
|-------------------------------------|--------------|---|--------------|---|--------------|--|--------------|
|                                     |              | Topic   | No. of Class | Topic   | No. of Class | Topic  | No. of Class |
| <b>Prof. Shyamaprasad Mukherjee</b> | <b>Hons.</b> | CC-4 Self Management in the Gītā: Section-A Śrīmadbhagavadgītā (Adhyāya-4 th)(Whole)  | <b>35</b>    | CC-10 Sanskrit and World Literature Section-A (I) Sanskrit Studies Across the World- William Jones, Charles Wilkins, H.Wilson, Max Muller, J.G.Buhler, Sri Aurobindo, DayānandaSarasvatī, HaridāsaSiddhāntavāgīśa, ŚrījīvaNyāyatīrtha,NityānadaSmṛtītīrtha, Kshitish Chandra Chatterji, Roma Chaudhuri, PañcānanaTarkaratna&RamaranjanMukherji) | <b>54</b>    | cc-14 Sanskrit Composition and Communication (A) Case-endings and Cases-(From First Case-ending and Nominative case to Fifth case ending and Ablative case as in Siddhāntakaumudī (40 classes) (B)Translation and Comprehension. (C) Reporting | <b>40</b>    |
|                                     | <b>Gen</b>   | CC-2 Discipline -1(Sanskrit) Sanskrit Prose: Section-A Daśakumāracarita-(Dvijopakṛti)--- As in Sanskrit Pāṭhamālā, B.U.   | <b>32</b>    | Basic Sanskrit – Part-I Section-D Brahmaḍattakarkaṭakathā-(Aparīkṣitakāraka)-Pañcatantra  | <b>14</b>    |  |              |
| <b>Dr. Dinesh Kr. Das</b>           | <b>Hons.</b> | CC -3 Classical Sanskrit Literature(Prose) Course Section-A Śukanāsopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. ( evaṃsamatikrāmatu----- bhrātaraucchedyāḥ) | <b>17</b>    | CC-9 Modern Sanskrit Literature Core Course Section-A (II)Cipiṭakacarvaṇa-ŚrījīvaNyāyatīrtha  | <b>30</b>    | CC -13 Indian Ontology and Epistemology Core Course (A)Tarkasaṃgraha – (saptapadārtha, karaṇa, pratyakṣa and sannikarṣa) (B)Vedāntasāra - (Excluding the last portion beginning with   | <b>65</b>    |



|  |              |  |           |  |           | Mahāvākyaṛtha).   |           |
|--|--------------|--|-----------|--|-----------|---|-----------|
|  | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose:<br>The History of Sanskrit<br>Literature – (Historical Kāvya)  | <b>25</b> | Basic Sanskrit – Part-I<br>Section-B (10 classes)<br>Conjugations – (Bhū,<br>Paṭh,Gam,<br>Dṛś,Sev,Labh,Pac,Vṛt,<br>Kṛ,Dā, Śru, Jñā - laṭ,<br>loṭlaṅ,liṅ&lṛṭ)   | <b>12</b> |   |           |
| <b>Prof.<br/>Prodip Kr.<br/>Sarkar</b> | <b>Hons.</b> | CC-4 Self Management in the<br>Gītā: Section-B Selected<br>ślokas from the Gītā<br>1.Meditation -Adhyāya-VI (10-<br>26) II. Diet Control-Adhyāya-<br>XVII (8-10) III. Rajoguṇa-<br>Adhyāya III (36-40) | <b>28</b> | SEC-2 Spoken<br>SanskritPolitical Thought<br>in Sanskrit Literature<br>I.Mudrārākṣasa–(Acts-I &<br>II) II. Arthaśāstra-<br>Śāsanādhikāra(20<br>classes)  | <b>25</b> | DSE-3 Fundamentals of<br>Āyurveda (A)Concept of<br>AṣṭāṅgĀyurveda. Discipli<br>(B)Taittirīyopanīṣad –<br>Bhṛguballī- (1-3) (30<br>classes)  | <b>33</b> |
|  | <b>Gen.</b>  |  |           | CC -4 Discipline -<br>1(Sanskrit ) Sanskrit<br>Grammar:<br>Section-B Potential<br>Participles, Nominal<br>Suffixes (Matvarthīya),<br>Causative Verbs,<br>Desiderative Verbs,<br>Frequentative Verbs,<br>Indeclinable Past<br>Participles, Use of<br>Ktvā&Lyap. | <b>22</b> | GE-II Ethical Issues in<br>Sanskrit Literature (I)<br>Hitopadeśa –Mitrālābha<br>(up to verse no.50) (30<br>classes) (II)Pañcatantra<br>Mitrabheda Katha<br>(Gomāyudundubhikathā)<br>(30classes) | <b>55</b> |
| <b>Prof.<br/>Biswajit<br/>Raj</b>      | <b>Hons.</b> | CC -3 Classical Sanskrit<br>Literature(Prose)<br>Section-B Daśakumāracarita-<br>(Rājavāhanacarita)--- As in<br>Sanskrit Pāṭhamālā ,BU  |           | CC-9 Modern Sanskrit<br>Literature Core Course<br>Section-A Survey of<br>Modern Sanskrit<br>Literature in Bengal   |           | DSE-4<br>Indian system of Logic<br>Anumānakhaṇḍa&Upamā<br>nakhada of<br>Tarkasamgraha   |           |
|  | <b>Gen.</b>  |  |           | CC -4 Discipline -<br>1(Sanskrit ) Sanskrit<br>Grammar:<br>Section-A The Concept of<br>the following Saṃjñās:<br>Sūtra,Vārtika,Bhāṣya,Kar  | <b>35</b> | DSE-1 From Discipline-<br>1B(Sanskrit) DSE-1B Select<br>from DSE Group: Literary<br>Criticism (30 classes)<br>I)Metrics – A General<br>Concept of Sanskrit                                      | <b>65</b> |

|  |              |  |           |  |           |   |           |
|--|--------------|--|-----------|--|-----------|---|-----------|
|  |              |  |           | mapravacanīya,Nipāta,Ga<br>ti ,<br>Upasarga,Guṇa,Vṛddhi,Ṭi,<br>Ghi,Ghu,Nadī,Upadhā<br>and Samprasāraṇa.  |           | Metres and the definitions<br>of the following Meters --<br>Indravajrā<br>Upendravajrā,Upajāti,<br>Varṁsasthavila,Vasantatila<br>ka, Mālinī & Mandākrāntā<br>(I) Sāhityadarpaṇa –<br>Chapter-X (30 classes)<br>(Śleṣa, Upamā, Rūpaka,<br>Utprekṣā,<br>Atiśayokti,Drṣṭānta,<br>Nidarśanā &<br>Arthāntaranyāsa) |           |
| <b>Prof.<br/>Kakali Ch.<br/>Mishra</b> | <b>Hons.</b> | CC -3 Classical Sanskrit<br>Literature(Prose)Section-C<br>(I)The History of Sanskrit<br>Literature (Prose).<br>(Subandhu,Daṇḍin,Bāṇabhaṭṭ)   | <b>32</b> | CC -8 Indian Epigraphy<br>and Chronology Section-<br>A (I) Epigraphy-The<br>History of Epigraphical<br>study in India. Section-B<br>Śilālekha-<br>(a)Rudradāmanśilālīpi<br>(b)Meherauli Iron Pillar<br>Inscription of Candra | <b>33</b> |   |           |
|  | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose:<br>Section-B (I)The History of<br>Sanskrit Literature (Prose).<br>(Subandhu, Daṇḍin,<br>Bāṇabhaṭṭa)  | <b>31</b> | Basic Sanskrit – Part-I<br>Section-A Declensions (a-<br>kārānta,i-kārānta, u-<br>kārānta and ṛ-kārānta -<br>Masculine,Feminine&<br>Neuter, Pronouns &<br>Number) Translation   | <b>10</b> | SEC-IV<br>Moral Values In Sanskrit<br>Literature Section-A<br>Dānavīraḥ Karṇaḥ (from<br>Karṇabhāra) Section-B<br>Śāśakasimhakatā(from<br>Pañcatantra)   | <b>40</b> |
| <b>Prof.<br/>Munmun<br/>Mishra</b>     | <b>Hons.</b> | CC -3 Classical Sanskrit<br>Literature(Prose)Section-C<br>The History of Sanskrit<br>Literature (Fables)<br>(Pañcatantra,Hitopadeśa,Vetāl<br>apañcaviṁśati,Sinhāsanaadvātr<br>iṁśikā, Puruṣaparīkṣā) | <b>32</b> |  |           |   |           |
|  | <b>Gen.</b>  | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose:<br>The History of Sanskrit   | <b>25</b> | CC -4 Discipline -<br>1(Sanskrit ) Sanskrit<br>Grammar:  | <b>14</b> |   |           |

|   |             |   |           |  |           |   |              |
|---|-------------|---|-----------|--|-----------|---|--------------|
|   |             | Literature (Fables)<br>(Pañcatantra, Hitopadeśa, Vetāl<br>apañcaviṁśati,<br>Sinhāsanadvātrimśikā,<br>Puruṣaparīkṣā) |           | Section-C<br>Comprehension   |           |   |              |
| <b>Prof.<br/>Chandrani<br/>Agarwala</b> | <b>Gen.</b> | CC-2 Discipline -1(Sanskrit)<br>Sanskrit Prose Section-A (30<br>classes) Daśakumāracarita-<br>(Dvijopakṛti)         | <b>34</b> | SEC-II Indian Theatre<br>Drāmatuṛgy --<br>Sāhityadarpaṇa -<br>Chapter- VI<br>(Rūpaka, Nāndī, Vṛttis (wit<br>hout Aṅgas), Prastāvanā, A<br>rthaprakṛti, Arthopakṣepa<br>ka, Patākāsthānakas, K<br>ārya, Avasthā, Sandhi<br>(without Aṅgas) & Nāṭikā | <b>45</b> | DSE-II<br>Literary Criticism<br>I) Metrics – A General<br>Concept of Sanskrit<br>Metres and the definitions<br>of the following Meters --<br>Indravajrā<br>Upendravajrā, Upajāti,<br>Varṁsasthāvila, Vasantatila<br>ka, Mālinī & Mandākrāntā<br><br>GE-II Ethical Issues in<br>Sanskrit Literature (I)<br>Hitopadeśa – Mitralābha<br>(up to verse no.50)<br>(II) Pañcatantra<br>Mitrabheda Katha<br>(Gomāyudundubhikathā) | <b>30+62</b> |

*Pradyumnprasad Mundeja*  
(Full Signature of the Examiner)

*Biswajit Raj*

**DEPARTMENT OF ECONOMICS**

**TEACHING PLAN OF DR. LABANYA PAL**

**Economies (Honours & General) (2020-21) (July 2020 – June 2021)**

| Month     | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|-----------|--|----------------|---|----------------|--|----------------|
| July      | CC1: Introductory Microeconomics<br>Unit 3. Producer Behaviour:<br>Production function   | 8              | CC6: Intermediate Macroeconomics<br>Unit 1. Investment function   | 12             | CC11: International Economics<br>Unit 1. Trade: Ideas and Concepts                           | 10             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|           | CC-1A/GE1<br>Microeconomics<br>Unit 2. Producer's Behaviour:<br>Production function  | 7              | CC – 1C/GE3:<br>Development Economics<br>Economic Growth:   | 3              | DSE 1A: Basic Statistics<br>GE -1: Basic Economics<br>Unit 5. The National Income Accounting | 10<br>6        |
| August    | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|           | CC1: Introductory Microeconomics<br>Unit 3.<br>Producer Behaviour:<br>Isoquant MRTS,<br>producer's equilibrium-Output maximization -             | 8              | CC6: Intermediate Macroeconomics<br><br>Unit 2. The classical system  | 12             | CC11: International Economics<br>Unit 2. Pure Theory of Trade:                               | 12             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|           | CC-1A/GE1<br>Microeconomics<br>Unit 2. Producer's Behaviour:<br>Cost function  | 7              | CC – 1C/GE3:<br>Development Economics<br>Economic Growth:<br>SEC1: Basic Computer Applications (Theory + Practical) | 5<br>(3+2)     | DSE 1A: Basic Statistics<br>GE -1: Basic Economics<br>Unit 5. The National Income accounting | 10<br>7        |
| September | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|           | CC1: Introductory Microeconomics<br>Unit 3.: Producer Behaviour:<br>Elasticity of substitution, RTS,<br>Cobb-Douglas and CES Production function | 8              | CC6: Intermediate Macroeconomics<br>Unit 3. The Complete Keynesian model  | 12             | CC11: International Economics<br>Unit 2. Pure Theory of Trade:                               | 12             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|           | CC-1A/GE1<br>Microeconomics<br>Unit 2.<br>Producer's Behaviour:<br>Revenue function  | 7              | CC – 1C/GE3:<br>Development Economics<br>Economic Growth:<br>SEC1: Basic Computer Applications (Theory + Practical) | 5<br>(2+3)     | DSE 1A: Basic Statistics<br>GE -1: Basic Economics<br>Unit 5. The National Income Accounting | 10<br>7        |

|          |  |                |  |                |   |                |
|----------|--|----------------|--|----------------|---|----------------|
| October  | Sem-I (H)  | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|          | CC1: Introductory Microeconomics Unit 3. Producer Behaviour: Cost function-                | 7              | CC6: Intermediate Macroeconomics Unit 4. Theory of inflation   | 7              | CC11: International Economics Unit 3. Trade Policy:   | 9              |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|          | CC-1A/GE1 Microeconomics Unit 3. Market Morphology: Concepts of different types of Markets | 4              | CC – 1C/GE3: Development Economics Economic Growth: SEC1: Basic Computer Applications (Theory + Practical)   | 3<br>(3+4)     | DSE 1A: Basic Statistics GE -1: Basic Economics Unit 6. Simple Keynesian theory of income and employment: | 10<br>4        |
| November | Sem-I (H)  | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|          | CC1: Introductory Microeconomics Unit 4. Market -1 Perfect Competition--                   | 8              | CC6: Intermediate Macroeconomics Unit 5. Economic Growth   | 10             | CC11: International Economics Unit 4. Balance of Payment:   | 12             |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|          | CC-1A/GE1 Microeconomics Unit 3. Market Morphology: Perfect Competition                    | 7              | CC – 1C/GE3: Development Economics Foreign Investment SEC1: Basic Computer Applications (Theory + Practical) | 6<br>(3+4)     | DSE 1A: Basic Statistics GE -1: Basic Economics Unit 6. Keynesian theory of income and employment:        | 10<br>4        |
| December | Sem-I (H)  | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|          | CC1: Introductory Microeconomics Unit 4. Market -1 Perfect Competition—                    | 6              | CC6: Intermediate Macroeconomics Unit 7. Role of expectation and Open Economy                                | 8              | CC11: International Economics Unit 4. Balance of Payment:   | 5              |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|          | CC-1A/GE1 Microeconomics Unit 3. Market Morphology: Monopoly                               | 5              | CC – 1C/GE3: Development Economics Foreign Investment SEC1: Basic Computer Applications (Theory + Practical) | 4<br>(2+3)     | DSE 1A: Basic Statistics GE -1: Basic Economics Unit 6. Keynesian theory of income and employment:        | 6<br>2         |

|  | Sem-II (H)   | No. of Lecture   | Sem-IV (H)  | No. of Lecture  | Sem-VI (H)   | No. of Lecture                                       |           |    |
|--|--|--|---|---|--|--|-----------|----|
| January  | CC3:<br>Introductory<br>Macroeconomics<br>Unit 4. The Simple<br>Keynesian model<br>of income<br>determination— | 8  | CC9:<br>Statistical Methods – II<br>Unit 1. Set Theory<br>Unit 3. Random Variables<br>and related concepts: | 4<br>4  | CC13:<br>Basic Econometrics<br>1. Nature and Scope of<br>Econometrics<br>2. Simple Linear<br>Regression Model:<br>Two Variable Cases | 3<br>7   |           |    |
|  | Sem-II (G)   | No. of<br>Lecture  | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G)   | No. of<br>Lecture                                    |           |    |
|  | CC – 1B/GE2:<br>Macroeconomics<br>Unit 2.<br>Money market  | 7  | CC – 1D/GE4<br>Features of Indian<br>Economy<br>Unit 3. Agriculture:  | 4   | GE - 2:<br>Indian Economic<br>Development<br>Unit 2.1<br>Agriculture   | 4  |           |    |
| February   | Sem-II (H)   | No. of<br>Lecture  | Sem-IV (H)  | No. of<br>Lecture   | Sem-VI (H)   | No. of<br>Lecture                                    |           |    |
|  | CC3:<br>Introductory<br>Macroeconomics<br>Unit 4. The Simple<br>Keynesian model<br>of income<br>determination— | 8  | CC9:<br>Statistical Methods – II<br>Unit 2: Probability Theory  | 10  | CC13:<br>Basic Econometrics<br>Unit 2. Simple Linear<br>Regression Model:<br>Two Variable Cases                                      | 10   |           |    |
|  |  |  | SEC2:<br>Basic<br>Computer<br>Applications<br>Unit1: File<br>Creation and<br>Management<br>System           | Theory  | 3  | CC14:<br>Field<br>Survey<br>and<br>Project<br>Report | Theory    | 7  |
|  |  |  |   | Practical   | 2  |  | Practical | 10 |
|  | Sem-II (G)   | No. of<br>Lecture  | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G)   | No. of<br>Lecture                                    |           |    |
| CC – 1B/GE2:<br>Macroeconomics<br>Unit 3. Simple<br>Keynesian theory<br>of income and<br>employment: | 7  | CC – 1D/GE4<br>Features of Indian<br>Economy<br>Unit 3. Agriculture: | 4   | GE - 2:<br>Indian Economic<br>Development<br>Unit 2.1<br>Agriculture: | 4  |  |           |    |
| March  | Sem-II (H)   | No. of<br>Lecture  | Sem-IV (H)  | No. of<br>Lecture   | Sem-VI (H)   | No. of<br>Lecture                                    |           |    |
|  | CC3:<br>Introductory<br>Macroeconomics<br>Unit 5.<br>Money market--  | 8  | CC9:<br>Statistical Methods – II<br>Unit4. Univariate<br>Probability Distributions                          | 10  | CC13:<br>Basic Econometrics<br>Unit 3. Multiple<br>Linear Regression<br>Model (in 3 variable<br>setup)                               | 13   |           |    |
|  |  |  | SEC2:<br>Basic<br>Computer<br>Applications<br>Unit2. Word<br>Processing                                     | Theory  | 2  | CC14<br>Field<br>Survey<br>and<br>Project<br>Report  | Theory    | 8  |
|  |  |  |   | Practical   | 3  |  | Practical | 10 |
|  | Sem-II (G)   | No. of<br>Lecture  | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G)   | No. of<br>Lecture                                    |           |    |

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|---|---|--|---|---|--|-------------------|--|-----------|---|--|-----------|----|
|   | CC – 1B/GE2:<br>Macroeconomics<br>4. IS-LM model  | 7  | CC – 1D/GE4<br>Features of Indian<br>Economy<br>Unit 3. Agriculture:                          | 4   | GE - 2:<br>Indian Economic<br>Development<br>Unit 2.1<br>Agriculture   | 3                 |  |           |   |  |           |    |
| April   | Sem-II (H)  | No. of<br>Lecture  | Sem-IV (H)  | No. of<br>Lecture   | Sem-VI (H)   | No. of<br>Lecture |  |           |   |  |           |    |
|   | CC3:<br>Introductory<br>Macroeconomics<br>Unit 5.<br>Money market--   | 8  | CC9:<br>Statistical Methods – II<br>Unit 5. Sampling Theory<br>and Sampling<br>Distributions: | 12  | CC13:<br>Basic Econometrics<br>Unit 3. Multiple<br>Linear Regression<br>Model (in 3 variable<br>setup)<br>Unit 4. Violations of<br>Classical<br>Assumptions:<br>Sources,<br>Consequences,<br>Detection | 7                 |  |           |   |  |           |    |
|   |   |  |   |   |  |                   | SEC2<br>Basic<br>Computer<br>Applications<br>3. Spread<br>Sheet<br>Solutions | Theory    | 4 | CC14:<br>Field<br>Survey<br>and<br>Project<br>Report | Theory    | 8  |
|   |   |  |   |   |  |                   |  | Practical | 7 |  | Practical | 10 |
|   | Sem-II (G)  | No. of<br>Lecture  | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G)   | No. of<br>Lecture |  |           |   |  |           |    |
| CC – 1B/GE2:<br>Macroeconomics<br>Unit 5. The<br>classical system | 7   | CC – 1D/GE4<br>Features of Indian<br>Economy<br>Unit 4. Industry:  | 4   | GE - 2:<br>Indian Economic<br>Development<br>Unit 2.1. Agriculture: | 3  |                   |  |           |   |  |           |    |
| May   | Sem-II (H)  | No. of<br>Lecture  | Sem-IV (H)  | No. of<br>Lecture   | Sem-VI (H)   | No. of<br>Lecture |  |           |   |  |           |    |
|   | CC3:<br>Introductory<br>Macroeconomics<br>Unit 6. Interaction<br>between<br>commodity market<br>and money market<br>(IS-LM model) | 10   | CC9:<br>Statistical Methods – II<br>Unit 7. Estimation:                                       | 10  | CC13:<br>Basic Econometrics<br>4. Violations of<br>Classical<br>Assumptions:<br>Sources,<br>Consequences,<br>Detection   | 10                |  |           |   |  |           |    |
|   |   |  |   |   |  |                   | SEC2:<br>Basic<br>Computer<br>Applications<br>Unit4:<br>Presentations        | Theory    | 3 | CC14:<br>Field<br>Survey<br>and<br>Project<br>Report | Theory    | 8  |
|   |   |  |   |   |  |                   |  | Practical | 4 |  | Practical | 10 |
|   | Sem-II (G)  | No. of<br>Lecture  | Sem-IV (G)  | No. of<br>Lecture   | Sem-VI (G)   | No. of<br>Lecture |  |           |   |  |           |    |
| CC – 1B/GE2:<br>Macroeconomics<br>Unit 5. The<br>classical system | 7   | CC – 1D/GE4<br>Features of Indian<br>Economy:<br>Unit 4. Industry: | 4   | GE - 2:<br>Indian Economic<br>Development<br>Unit 2.2. Industry     | 4  |                   |  |           |   |  |           |    |

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|------|--|----------------|--|----------------|---|----------------|
| June | Sem-II (H)   | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)  | No. of Lecture |
|      | CC3: Introductory Macroeconomics Unit 6. Interaction between commodity market and money market (IS-LM model)   | 4              | CC9: Statistical Methods – II Unit 8. Testing of Hypothesis: | 8              | CC13: Basic Econometrics Unit 5. Specification Analysis | 7              |
|      | Sem-II (G)   | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)  | No. of Lecture |
|      | CC – 1B/GE2: Macroeconomics Supply of money – Different sources of money supply – M <sub>1</sub> , M <sub>2</sub> , M <sub>3</sub> , and M <sub>4</sub> – functions of money | 4              | CC – 1D/GE4 Features of Indian Economy: Unit 4. Industry:    | 4              | GE - 2: Indian Economic Development Unit 2.2. Industry  | 4              |

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**DEPARTMENT OF ECONOMICS**

**TEACHING PLAN OF DR. KAKALI ADHIKARI**  
**Economics (Honours & General) (2020-21) (July 2020 – June 2021)**

| Month     | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|-----------|---|----------------|--|----------------|---|----------------|
| July      | CC2: Statistics –I<br>Unit1.Tabular and Diagrammatic Presentation of Data:<br>Unit2. Measures of Central Tendency | 5<br>5         | CC7: Mathematical Economics –II<br><br>Unit 1. Determinants and Matrices:  | 10             | CC12: Money & Banking<br>Unit 1. Introduction<br>Unit 2. Money<br>DSE 1: Unit 1<br>Selected Features of West Bengal Economy   | 5<br>5<br>8    |
|           | Sem-I (G)   | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|           | CC-1A/GE1 Microeconomics<br>Unit 4. Theory of Distribution:<br>Marginal Productivity Theory                       | 3              | CC – 1C/GE3: Development Economics<br>Meaning of Economic Development and Growth   | 3              | SEC 3: Money & Banking<br>GE -1: Basic Economics<br>Unit 3. Producer's Behaviour:   | 5<br>3         |
| August    | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|           | CC2: Statistics –I<br>Unit2. Measures of Central Tendency<br>Unit3.Measures of Dispersion                         | 5<br>5         | CC7: Mathematical Economics –II<br>Unit 1. Determinants and Matrices: Application<br>Unit 2 Linear Programming:<br>SEC 1: Unit1.<br>Managerial Economics | 5<br>5<br>10   | CC12: Money & Banking<br>Unit 2. Money<br>Unit 3. Financial Institutions, Markets, Instruments and Financial Innovations<br>DSE 1: Unit 2<br>Selected Features of West Bengal Economy | 5<br>7<br>10   |
|           | Sem-I (G)   | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|           | CC-1A/GE1 Microeconomics<br>Unit 4. Theory of Distribution:<br>Ricardian and modern Theory                        | 3              | CC – 1C/GE3: Development Economics<br>Meaning of Economic Development and Growth   | 4              | SEC 3: Money & Banking<br>GE -1: Basic Economics<br>Unit 3. Producer's Behaviour:   | 5<br>4         |
| September | Sem-I (H)   | No. of Lecture | Sem-III (H)  | No. of Lecture | Sem-V (H)   | No. of Lecture |
|           | CC2: Statistics –I<br>Unit3.Measures of Dispersion<br><br>Unit4. Skewness and Kurtosis                            | 5<br>5         | CC7: Mathematical Economics –II<br>Unit 2 Linear Programming:<br>Unit3. Input – Output Analysis:<br><br>SEC 1: Unit2.<br>Managerial Economics            | 5<br>5<br>5    | CC12: Money & Banking<br>Unit 3. Financial Institutions, Markets, Instruments and Financial Innovations<br><br>DSE 1: Unit 3<br>Selected Features of West Bengal Economy              | 11<br>10       |

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|----------|--|----------------|---|----------------|--|----------------|
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|          | CC-1A/GE1<br>Microeconomics<br>Unit 4. Theory of Distribution:<br>Theory of Wage   | 3              | CC – 1C/GE3:<br>Development Economics<br>Meaning of Economic<br>Development and Growth                              | 4              | SEC 3: Money & Banking<br>GE -1: Basic Economics<br>Unit 3. Producer's Behaviour;                                  | 5<br>4         |
| October  | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|          | CC2:<br>Statistics –I<br>Unit4.Skewness and Kurtosis<br>Unit5. Bivariate Data: Simple Correlation and Regression Analysis              | 3<br>4         | CC7: Mathematical Economics –II<br><br>Unit3. Input – Output Analysis:<br><br>SEC 1: Unit3.<br>Managerial Economics | 7<br>5         | CC12:<br>Money & Banking<br>Unit 4. Interest rates<br>DSE 1: Unit 4<br>Selected Features of West Bengal Economy    | 8<br>8         |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|          | CC-1A/GE1<br>Microeconomics<br>Unit 4. Theory of Distribution:<br>Theory of Interest   | 3              | CC – 1C/GE3:<br>Development Economics<br>Unit 4. Political Institutions and the State                               | 4              | SEC 3: Money & Banking<br>GE -1: Basic Economics<br>Unit 4. Market Morphology:                                     | 5<br>4         |
| November | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|          | CC2:<br>Statistics –I<br>Unit5. Bivariate Data: Simple Correlation and Regression Analysis<br>Unit 6. Multiple and Partial Correlation | 6<br>6         | CC7: Mathematical Economics –II<br><br>Unit4. Basic Game Theory:<br><br>SEC 1: Unit3.<br>Managerial Economics       | 12<br>5        | CC12:<br>Money & Banking<br>Unit 5.<br>Banking System<br>DSE 1: Unit 5<br>Selected Features of West Bengal Economy | 12<br>10       |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|          | CC-1A/GE1,<br>Microeconomics<br>Unit 4. Theory of Distribution:<br>Theory of Profit  | 3              | CC – 1C/GE3:<br>Development Economics<br>Unit 4. Political Institutions and the State                               | 4              | SEC 3: Money & Banking<br>GE -1: Basic Economics<br>Unit 4. Market Morphology:                                     | 5<br>4         |
| December | Sem-I (H)  | No. of Lecture | Sem-III (H)   | No. of Lecture | Sem-V (H)  | No. of Lecture |
|          | CC2:<br>Statistics –I<br>Unit7.Index Numbers<br>Unit8.Time Series  | 5<br>5         | CC7: Mathematical Economics –II<br>Unit5. Decisions under Uncertainty:<br>SEC 1: Unit4.<br>Managerial Economics     | 7<br>5         | CC12: Money & Banking: Unit 6.<br>Central Banking & Monetary Policy<br>DSE 1: Unit 6<br>West Bengal Economy        | 10<br>8        |
|          | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|          | CC-1A/GE1<br>Microeconomics  |                | CC – 1C/GE3:<br>Development Economics   | 4              | SEC 3: Money & Banking   | 4              |

|          |   |                |  |                |  |                |
|----------|---|----------------|--|----------------|--|----------------|
|          | Unit 5. General concepts of Welfare Economics:  | 3              | Unit 4. Political Institutions and the State   |                | GE -1: Basic Economics<br>Unit 4. Market Morphology:   | 3              |
| January  | Sem-II (H)  | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)   | No. of Lecture |
|          | CC4:Mathematical Economics –I<br>Unit 1. Single and multivariable functions and its applications          | 10             | CC8: Selected Features of Indian Economy<br>Unit1. Economic Development since Independence           | 10             | DSE 4:<br>Financial Economics<br>Unit1. Introduction   | 8              |
|          | Sem-II (G)  | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)   | No. of Lecture |
|          | CC – 1B/GE2:<br>Macroeconomics<br>Unit 6.<br>Theory of inflation  | 3              | CC – 1D/GE4<br>Features of Indian Economy<br>Unit 5. Banking:<br>SEC 2: Entrepreneurship Development | 3<br>4         | GE - 2:<br>Indian Economic Development<br>Unit 3. Banking:<br>SEC 4: Business Project Proposal | 3<br>4         |
| February | Sem-II (H)  | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)   | No. of Lecture |
|          | CC4:<br>Mathematical Economics –I<br>Unit 2.<br>Unconstrained Optimization: Its applications in Economics | 10             | CC8: Selected Features of Indian Economy<br>Unit 2. Population and Human Development                 | 10             | DSE 4:<br>Financial Economics<br>Unit 2. Corporate Finance                                     | 10             |
|          | Sem-II (G)  | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)   | No. of Lecture |
|          | CC – 1B/GE2:<br>Macroeconomics<br>Unit 6.<br>Theory of inflation  | 3              | CC – 1D/GE4<br>Features of Indian Economy<br>Unit 5. Banking:<br>SEC 2: Entrepreneurship Development | 4<br>4         | GE - 2:<br>Indian Economic Development<br>Unit 3. Banking:<br>SEC 4: Business Project Proposal | 3<br>4         |
| March    | Sem-II (H)  | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)   | No. of Lecture |
|          | CC4:<br>Mathematical Economics –I<br>Unit3.<br>Constrained Optimization: Its applications in Economics    | 10             | CC8: Selected Features of Indian Economy<br>Unit 3. Development and Distribution                     | 10             | DSE 4:<br>Financial Economics<br>Unit 3a. Investment Theory and Portfolio Analysis             | 10             |
|          | Sem-II (G)  | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)   | No. of Lecture |
|          | CC – 1B/GE2:<br>Macroeconomics<br>Unit 6. Theory of Inflation   | 3              | CC – 1D/GE4<br>Features of Indian Economy<br>Unit 5. Banking:<br>SEC 2: Entrepreneurship Development | 3<br>4         | GE - 2:<br>Indian Economic Development<br>Unit 3. Banking:<br>SEC 4: Business Project Proposal | 3<br>4         |

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|-------|--|----------------|--|----------------|---|----------------|
| April | Sem-II (H)   | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)  | No. of Lecture |
|       | CC4: Mathematical Economies -I Unit4. Integration of Functions: Its applications                                       | 10             | CC8: Selected Features of Indian Economy Unit 4. Macroeconomic Policies and Their Impact                   | 10             | DSE 4: Financial Economics Unit 3b. Investment Theory and Portfolio Analysis                        | 10             |
|       | Sem-II (G)   | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)  | No. of Lecture |
|       | CC - IB/GE2: Macroeconomies Unit 7. Banking  | 3              | CC - 1D/GE4 Features of Indian Economy Unit 6. Indian Public Finance: SEC 2: Entrepreneurship Development  | 4<br>4         | GE - 2: Indian Economic Development Unit 4. Indian Public Finance: SEC 4: Business Project Proposal | 4<br>4         |
| May   | Sem-II (H)   | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)  | No. of Lecture |
|       | CC4: Mathematical Economies -I Unit 5. Techniques of dynamic Analysis:   | 10             | CC8: Selected Features of Indian Economy Unit 5. Policies and Performance in Agriculture                   | 10             | DSE 4: Financial Economics 3c. CAPM   | 10             |
|       | Sem-II (G)   | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)  | No. of Lecture |
|       | CC - IB/GE2: Macroeconomies Unit 7. Banking  | 3              | CC - 1D/GE4 Features of Indian Economy: Unit 6. Indian Public Finance: SEC 2: Entrepreneurship Development | 4<br>4         | GE - 2: Indian Economic Development Unit 4. Indian Public Finance: SEC 4: Business Project Proposal | 4<br>4         |
| June  | Sem-II (H)   | No. of Lecture | Sem-IV (H)   | No. of Lecture | Sem-VI (H)  | No. of Lecture |
|       | CC4: Mathematical Economies -I Unit 5. The Cobweb Model- Dynamic multiplier -Multiplier Accelerator interaction Model. | 5              | CC8: Selected Features of Indian Economy Unit 6. Policies and Performance in Industry                      | 10             | DSE 4: Financial Economics Unit 4. Options and Derivatives  | 7              |
|       | Sem-II (G)   | No. of Lecture | Sem-IV (G)   | No. of Lecture | Sem-VI (G)  | No. of Lecture |
|       | CC - IB/GE2: Macroeconomies Unit 7. Banking  | 2              | CC - 1D/GE4 Features of Indian Economy: Unit 6. Indian Public Finance: SEC 2: Entrepreneurship Development | 3<br>3         | GE - 2: Indian Economic Development Unit 5. Foreign trade SEC 4: Business Project Proposal          | 4<br>3         |

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**DEPARTMENT OF ECONOMICS**

**TEACHING PLAN OF PROF. RAMANANDA ROY**  
**Economics (Honours & General) (2020-21) (July 2020 – June 2021)**

| Month     | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|-----------|--|----------------|---|----------------|--|----------------|
| July      | CC1: Introductory Microeconomics Unit 1. General Concept                                 | 8              | CC6: Intermediate Microeconomics Unit 1. Imperfect Competition; Theory of monopoly                                  | 6              | DSE 2 Public Economics Unit 1: Introduction to instruments and objective of Public Finance | 15             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
|           | CC-1A/GE1 Microeconomics Unit 1. Consumer's Behaviour: A. Utility                        | 4              | CC - 1C/GE3: Development Economics Poverty and Inequality   | 3              | DSE 1A: Economic History of India: Unit 1: 1. Introduction:                                | 6              |
| August    | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|           | CC1: Introductory Microeconomics Unit 2. Consumer Behaviour: The Marshallian Approach    | 4              | CC6: Intermediate Microeconomics Unit 1. Imperfect Competition; Theory of monopoly-discriminating monopoly, duopoly | 6              | DSE 2 Public Economics Unit 2: Principles of Taxation                                      | 15             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |
| September | CC-1A/GE1 Microeconomics Unit 1. Consumer Behaviour: B. Indifference Curve approach      | 4              | CC - 1C/GE3: Development Economics Poverty and Inequality- Gender Inequality – Gender Development Index             | 5<br>(3+2)     | DSE 1A: Economic History of India: Unit 2 Macro Trends National Income; population         | 13             |
|           | Sem-I (II)   | No. of Lecture | Sem-III (II)  | No. of Lecture | Sem-V (II)   | No. of Lecture |
|           | CC1: Introductory Microeconomics Unit 2. Consumer Behaviour: Indifference curve approach | 4              | Theory: CC6: Intermediate Microeconomics Unit 2 & 3. Theory of oligopoly & Factor Pricing                           | 12             | DSE 2 Public Economics Unit 3: Public Expenditure and Public Debt                          | 15             |
|           | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture | Sem-V(G)   | No. of Lecture |

|          |  |                   |  |                   |   |                   |
|----------|--|-------------------|--|-------------------|---|-------------------|
|          | CC-1A/GE1<br>Microeconomics<br>Unit1. Consumer<br>Behaviour:<br>Indifference curve<br>approach | 4                 | CC – 1C/GE3:<br>Development<br>Economics<br>Poverty and<br>Inequality:<br>connections between<br>inequality and<br>development; poverty<br>measurement,<br>SECI:CC – 1D :<br>Features of Indian<br>Economy | 5<br><br>(2+3)    | DSE 1A:<br>Economic<br>History of India:<br>Unit 3.<br>Agriculture                                      | 10                |
| October  | Sem-I (H)  | No. of<br>Lecture | Sem-III (H)  | No. of<br>Lecture | Sem-V (H)   | No. of<br>Lecture |
|          | CC1:Introductory<br>Microeconomics<br>Unit2.Consumer<br>Behaviour:<br>Elasticities of demand   | 5                 | CC6: Intermediate<br>Microeconomics<br><br>Unit 1. Theory of<br>Factor Pricing; wage,<br>rent  | 8                 | DSE 2 Public<br>Economics<br>Unit 4.<br>Compensatory<br>Fiscal Policy:                                  | 12                |
|          | Sem-I (G)  | No. of<br>Lecture | Sem-III (G)  | No. of<br>Lecture | Sem-V(G)  | No. of<br>Lecture |
|          | CC-1A/GE1<br>Microeconomics<br>Unit1.<br>Elasticity of Demand                                  | 4                 | CC – 1C/GE3:<br>Development<br>Economics<br>Poverty and inequality<br><br>SECI: CC – 1D<br>Features of Indian<br>Economy   | 7<br><br>(3+4)    | DSE 1A:<br>Economic<br>History of India:<br>Unit 4. Railways<br>and Industry:                           | 10<br><br>4       |
| November | Sem-I (H)  | No. of<br>Lecture | Sem-III (H)  | No. of<br>Lecture | Sem-V (H)   | No. of<br>Lecture |
|          | CC1:Introductory<br>Microeconomics<br>Unit 2. Consumer<br>behaviour<br>Elasticities of demand  | 4                 | CC6: Intermediate<br>Microeconomics<br><br>Unit 4. General<br>Equilibrium and<br>Economic Welfare  | 8                 | DSE 2 Public<br>Economics<br>Unit 4.<br>Compensatory<br>Fiscal Policy                                   | 12                |
|          | Sem-I (G)  | No. of<br>Lecture | Sem-III (G)  | No. of<br>Lecture | Sem-V(G)  | No. of<br>Lecture |
|          | CC-1A/GE1<br>Unit1C.Microeconomics<br>Elasticity of Demand                                     | 3                 | CC – 1C/GE3:<br>Development<br>Economics<br>Poverty and inequality<br><br>SECI: CC – 1D<br>Features of Indian<br>Economy   | 7<br><br>(3+4)    | DSE 1A:<br>Economic<br>History of India:<br>Unit 5. Economy<br>and State in the<br>Imperial<br>Context: | 10<br><br>4       |
| December | Sem-I (H)  | No. of<br>Lecture | Sem-III (H)  | No. of<br>Lecture | Sem-V (H)   | No. of<br>Lecture |
|          | CC1:<br>Introductory<br>Microeconomics<br>Unit 2. Consumer<br>behaviour<br>The Revealed        | 4                 | CC6: Intermediate<br>Microeconomics<br><br>Unit 4. General<br>Equilibrium and<br>Economic Welfare  | 10                | DSE 2 Public<br>Economics<br>Unit 2: Principles<br>of Taxation  | 7                 |

|                       | Preferences approach  |                |  |                |   |                |
|-----------------------|---|----------------|--|----------------|---|----------------|
|                       | Sem-I (G)   | No. of Lecture | Sem-III (G)  | No. of Lecture | Sem-V(G)  | No. of Lecture |
|                       | CC-1A/GE1<br>Microeconomics<br>Unit1 C. Elasticity of Demand  | 3              | CC - 1C/GE3:<br>Development Economics<br>Poverty and inequality<br><br>SEC1: CC - 1D<br>Human resources and economy development:         | 4<br><br>(2+3) | DSE IA:<br>Economic History of India:<br>Unit 5. Economy and State in the Imperial Context: | 9              |
| January               | Sem-II (II)   |                | Sem-IV (II)  |                | Sem-VI (II)   |                |
|                       | CC3:<br>Introductory Macroeconomics<br>Unit 1. Introduction:  | 5              | CC10:<br>Development Economics<br><br>Unit 1 Economic Development  | 6              | DSE 3 Political Economy<br>Unit 1: Classical Economic Thoughts:                             | 10             |
|                       | Sem-II (G)  |                | Sem-IV (G)   |                | Sem-VI (G)  |                |
|                       | CC - 1B/GE2:<br>Macroeconomics<br>Unit 1.<br>The National Income and products accounts  | 4              | CC - 1D/GE4<br>Features of Indian Economy<br>Unit 2. Human resources and economy development:  | 4              | GE - 2:<br>Indian Economic Development<br>Unit1. Meaning of Economic Development and Growth | 8              |
| February              | Sem-II (II)   |                | Sem-IV (II)  |                | Sem-VI (II)   |                |
|                       | CC3:<br>Introductory Macroeconomics<br>Unit 2. The National Income and products accounts:<br>Defn. concept and measurement, methods of measurement. | 5              | CC10:<br>Development economics<br>Unit 2 Development and Underdevelopment as a Historical Process<br><br>SEC2:<br>DSE 2 Public Economics | 15<br><br>10   | DSE 3 Political Economy<br>Unit 1: Classical Economic Thoughts                              | 10             |
|                       | Sem-II (G)  |                | Sem-IV (G)   |                | Sem-VI (G)  |                |
|                       | CC - 1B/GE2:<br>Macroeconomics<br>Unit 1. The National Income and products accounts   | 4              | CC - 1D/GE4<br>Features of Indian Economy<br>Unit 2. Human resources and economy development:  | 4              | GE - 2:<br>Indian Economic Development<br>Meaning of Economic Development and Growth        | 8              |
| M<br>a<br>r<br>c<br>h | Sem-II (II)   |                | Sem-IV (II)  |                | Sem-VI (II)   |                |

|       |  |   |  |           |  |    |
|-------|--|---|--|-----------|--|----|
|       | CC3:<br>Introductory<br>Macroeconomics<br>Unit 2.<br>National Income<br>accounting   | 5 | CC10: Development<br>economics:<br>Unit 3. Persistence<br>of<br>Underdevelopment<br>and Way to Develop   | 10        | DSE 3 Political<br>Economy<br>Unit 1: Classical<br>Economic<br>Thoughts        | 10 |
|       | Sem-II (G)   |   | Sem-IV (G)   |           | Sem-VI (G)   |    |
|       | CC - 1B/GE2:<br>Macroeconomics<br>Unit 1: National Income<br>accounting  | 4 | CC - 1D/GE4<br>Features of Indian<br>Economy<br>Unit 6. Indian Public<br>Finance:                        | 4         | GE - 2:<br>Indian Economic<br>Development<br>Unit 5: Foreign<br>trade          | 4  |
| April | Sem-II (H)   |   | Sem-IV (H)   |           | Sem-VI (H)   |    |
|       | CC3:<br>Introductory<br>Macroeconomics<br>Unit 2.<br>The National Income<br>and products accounts                                      | 5 | CC10: Development<br>economics:<br>Unit 3: Persistence of<br>Underdevelopment<br>and Way to Develop      | 10        | DSE 3 Political<br>Economy<br>Unit 2. Political<br>System                      | 15 |
|       | Sem-II (G)   |   | Sem-IV (G)   |           | Sem-VI (G)   |    |
|       | CC - 1B/GE2:<br>Macroeconomics<br>Unit 2. Money Demand   | 4 | CC - 1D/GE4<br>Features of Indian<br>Economy<br>Indian Public Finance:                                   | 4         | GE - 2:<br>Indian Economic<br>Development<br>Unit 5. Foreign<br>trade          | 4  |
| May   | Sem-II (H)   |   | Sem-IV (H)   |           | Sem-VI (H)   |    |
|       | CC3:<br>Introductory<br>Macroeconomics<br>Unit 3. Consumption<br>function:<br>Keynesian<br>consumption function<br>and its properties  | 4 | CC10: Development<br>economics:<br><br>Unit 3: Persistence of<br>Underdevelopment<br>and Way to Develop  | 10        | DSE 3 Political<br>Economy<br>Unit 3:<br>Analysing the<br>social changes:      | 20 |
|       | Sem-II (G)   |   | Sem-IV (G)   |           | Sem-VI (G)   |    |
|       | CC - 1B/GE2:<br>Macroeconomics<br>Unit 2. Money Demand   | 4 | CC - 1D/GE4<br>Features of Indian<br>Economy:<br>Indian Public Finance                                   | 4         | GE - 2:<br>Indian Economic<br>Development<br>Unit 4. Indian<br>Public Finance: | 4  |
| June  | Sem-II (H)   |   | Sem-IV (H)   |           | Sem-VI (H)   |    |
|       | CC3:<br>Introductory<br>Macroeconomics<br>Unit 3.<br>Consumption function<br>: Empirical findings<br>regarding consumption<br>function | 4 | CC10: Development<br>economics:<br>Unit 4 & 5.<br>Development Strategy<br>& Migration and<br>Development | 13<br>8+5 | DSE 3 Political<br>Economy<br>Unit 4. The state<br>and the economy             | 10 |



| Sem-II (G)   |   | Sem-IV (G)  |   | Sem-VI (G)  |    |
|--|---|---|---|---|----|
| CC - 1B/GE2:<br>Macroeconomics<br>Unit 2. Money supply | 3 | CC - 1D/GE4<br>Features of Indian<br>Economy:<br>Indian Public Finance: | 4 | GE - 2:<br>Indian Economic<br>Development<br>Unit 5.<br>Foreign trade | 5, |

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**DEPARTMENT OF ENGLISH**

**TEACHING PLAN OF WRITTEWICK MUKHOPADHYAY**

English (General) (2020-21) (July 2020 – June 2021)

| Month | Sem-I (G)  | No. of Lecture | Sem-III (G)   | No. of Lecture |
|-------|--|----------------|---|----------------|
| Jul   | Theory:<br>CC (L1-1): Language, Variety and Stylistics<br>Unit 1: Language & Communication – Distinctiveness of human language   | 16             | Theory :<br>CC (L1-2): Language, Imagination & Creativity<br>Unit 1: Plain Language and Figurative Language ( Related Tropes like Metaphor, Conceit, Metonymy)  | 16             |
| Aug   | Theory:<br>CC (L1-1): Language, Variety and Stylistics<br>Unit 1: Language & Communication – Distinctiveness of human language<br><br>Unit 2: Language varieties – Standard & Non-standard Language, Formal & Informal | 6<br><br>8     | Theory :<br>CC (L1-2): Language, Imagination & Creativity<br>Unit 1: Plain Language and Figurative Language ( Related Tropes like Metaphor, Conceit, Metonymy)<br><br>Unit 2: Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement | 16<br><br>8    |
| Sept  | Theory:<br>CC (L1-1): Language, Variety and Stylistics<br>Unit 2: Language varieties – Standard & Non-standard Language, Formal & Informal   | 14             | Theory :<br>CC (L1-2): Language, Imagination & Creativity<br>Unit 2: Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement  | 16             |
| Oct   | Theory:<br>CC (L1-1): Language, Variety and Stylistics<br>Unit 3: Difference between Declarative and Expressive forms of Language – when Statement becomes Expression  | 14             | Theory :<br>CC (L1-2): Language, Imagination & Creativity<br>Unit 3: Escape from Banality – Foregrounding devices like Parallelism & Deviation  | 14             |
| Nov   | Theory:<br>CC (L1-1): Language, Variety and Stylistics<br>Unit 3: Difference between Declarative and Expressive forms of Language – when Statement becomes Expression<br><br>Unit 4: Register, Collocation and Style   | 6<br><br>12    | Theory :<br>CC (L1-2): Language, Imagination & Creativity<br>Unit 3: Escape from Banality – Foregrounding devices like Parallelism & Deviation<br><br>Unit 4: Avoiding/Cultivating Ambiguity – Ambiguity, Weakness or Strength                          | 4<br><br>18    |
| Dec   | Theory:<br>CC (L1-1): Language,  |                | Theory :<br>CC (L1-2): Language, Imagination  |                |

|     |  |    |   |   |  |  |
|-----|--|----|---|---|--|--|
|     | <b>Variety and Stylistics</b><br>Unit 4: Register, Collocation and Style   | 8  | <b>A Creativity</b><br>Unit 4: Avoiding/Cultivating Ambiguity – Ambiguity: Weakness or Strength | 8 |  |  |
|     | <b>Sem-II (G)</b>  |    |   |   |  |  |
| Jan | <b>Theory:</b><br>AECC-2;<br><b>Communicative English</b><br>Unit 1: Theories of Communication; Types and Modes of Communication; Language of Communication; Verbal and Non-verbal (spoken and Written); Personal, Social and Business; Barriers and Strategies; Intra-personal, Inter-personal and Group Communication.   | 18 |   |   |  |  |
| Feb | <b>Theory:</b><br>AECC-2;<br><b>Communicative English</b><br>Unit 1: Theories of Communication; Types and Modes of Communication; Language of Communication; Verbal and Non-verbal (spoken and Written); Personal, Social and Business; Barriers and Strategies; Intra-personal, Inter-personal and Group Communication.<br><br>Unit 2: Speaking Skills: Monologue, Dialogue, Group Discussion; Effective Communication/Miscommunication; Interview; Public Speech | 14 |   |   |  |  |

|      |  |             |  |  |  |  |
|------|--|-------------|--|--|--|--|
| Mar  | <p>Theory:<br/>AECC-2;<br/>Communicative<br/>English<br/>Unit 2: Speaking Skills<br/>Monologues, Dialogues,<br/>Group Discussion,<br/>Effective<br/>Communication/Mis-<br/>communication,<br/>Interview, Public<br/>Speech</p>   | 20          |  |  |  |  |
| Apr  | <p>Theory:<br/>AECC-2;<br/>Communicative<br/>English<br/>Unit 3: Reading and<br/>Understanding: Close<br/>Reading,<br/>Comprehension,<br/>Summary<br/>Paraphrasing, Analysis<br/>and Interpretation,<br/>Translation (from<br/>Indian language to<br/>English and vice-versa)</p>  | 18          |  |  |  |  |
| May  | <p>Theory:<br/>AECC-2;<br/>Communicative<br/>English<br/>Unit 3: Reading and<br/>Understanding: Close<br/>Reading,<br/>Comprehension,<br/>Summary<br/>Paraphrasing, Analysis<br/>and Interpretation,<br/>Translation (from<br/>Indian language to<br/>English and vice-versa)</p> <p>Unit 4: Writing Skills:<br/>Documenting, Report<br/>Writing, Making Notes,<br/>Letter Writing</p> | 8<br><br>12 |  |  |  |  |
| June | <p>Theory:<br/>AECC-2;<br/>Communicative<br/>English<br/>Unit 4: Writing Skills:<br/>Documenting, Report</p>   | 10          |  |  |  |  |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Writing, Making Notes,<br>Letter Writing |  |  |  |  |  |
|--|--|--|--|--|--|

*Ms. Tanya Prasad*

04/02/2020

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