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	**Theory:** **CC1A** **Geomorphology and Cartography** **Unit 1:** 1. Weathering: Types and related landforms. **Practical** **CC1A** **Geomorphology and Cartography** **Unit 2:** 3. Composite bar diagram and age-sex pyramid.	5 2	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 3. Eskimos: Adjustment to the environment and recent development **Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement	2 3	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 1. Physical Setting – Landforms, Drainage, Climate 2. Population – Size and Growth since Independence	5 5
Aug	**Theory:** **CC1A** **Geomorphology and Cartography** **Unit 1:** 7. Fluvial Cycle of Erosion – Davis and Penck **Practical** **CC1A** **Geomorphology and Cartography** **Unit 2:** 3. Composite bar diagram and age-sex pyramid.	5 3	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 3. Eskimos: Adjustment to the environment and recent development **Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement	3 2	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 3. Settlement – Rural and Urban Types 4. Agricultural Resource: Rice and Wheat and Cotton	5 5
Sept	**Theory:** **CC1A** **Geomorphology and Cartography** 8. Hydrological Cycle and ground water. **Practical** **CC1A** **Geomorphology and Cartography** **Unit 2:** 4. Taylor's Climograph and	5 3	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 4. Population: Population Growth and Demographic Transition Theory **Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 4. Interpretation of weather	3 2	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 5. Mineral Resource - Iron ore and Bauxite	5

	Hythergraph		maps			
Oct	**Practical** **CC1A** **Geomorphology and Cartography** **Unit 2:** 4. Taylor's Climograph and Hythergraph	**2**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 4. Population: Population Growth and Demographic Transition Theory **Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 4. Interpretation of weather maps	**2** **3**	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 6. Energy Resources: Coal and Petroleum	**5**
Nov	Practice classes	**5**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 5. Types of population migration with reference to India Practice classes	**5** **5**	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 7. Industries: Cotton Textile and Iron and Steel Practice classes	**5** **5**
Dec	Special class	**5**	**Theory** **Theory** **CC 1C:** **Human Geography** **Unit 1:** 6. World Population Distribution and Composition (Age, Gender and Literacy) Special class	**5** **5**	**Theory** **DSE-1A :** **GEOGRAPHY OF INDIA** **UNIT: 1** 8. Regional Account of Sunderban and Marusthali Special class	**5** **5**
	Sem-II (G)		**Sem-IV (G)**		**Sem-VI (G)**	
Jan	**Practical** **Surveying and Levelling** **Unit II:** 1. Definition and classification of surveying	**5**	**Theory** **CC – 1D** **Environmental Geography** 1. Concepts and approaches of Environmental Geography: 2. Concept, Structure and Functions of Ecosystem **Practical** **CC–1D** **ENVIRONMENTAL GEOGRAPHY** 1. Questionnaire for Air Pollution and Health	**5** **5** **5**	**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 7. Cyclone: Causes, Consequences and Management **SEC-4 : Collection, Mapping and Interpretation of Pedological Data** 1. Soil Sampling Techniques **Practical** **DSE- 1B : Disaster**	**3** **6** **5**

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

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

					Special class	5

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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** **CC1-A:** **Geomorphology and Cartography** 4. Landform development in arid regions	**3**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 1. Definition, Nature, Major Subfields, Contemporary Relevance	**2**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1** 1. Scope and Content of Economic Geography 2. Von Thunen Theory of Land Use	 **5** **5**
Aug	**Theory** **CC1-A:** **Geomorphology and Cartography** 4. Landform development in arid regions	**2**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 1. Definition, Nature, Major Subfields, Contemporary Relevance	**3**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1** 3. Theory of Industrial Location - Weber 4. Types of Farming	 **5** **5**
Sept	**Theory** **CC1-A:** **Geomorphology and Cartography** 5. Landform development in glaciated regions.	**3**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 2. Space and Society: Cultural Regions; Race; Religion and Language	**3**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1** 5. Intensive Subsistence Farming and Plantation Agriculture	 **5**
Oct	**Theory** **CC1-A:** **Geomorphology and Cartography** 5. Landform development in glaciated regions.	**2**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 2. Space and Society: Cultural Regions; Race; Religion and Language	**2**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1** 6. Commercial Fishing	 **5**
Nov	**Theory** **CC1-A:** **Geomorphology and Cartography**		**Theory** **CC 1C:** **Human Geography** **Unit 1:** 7. Settlements: Types and	**5**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1**	

	6. Development of fluvial landforms	3	Patterns of Rural Settlements; Practice classes	 5	7. Mining (iron ore, coal and petroleum) Practice classes	5 5
Dec	**Theory** **CC1-A: Geomorphology and Cartography** 6. Development of fluvial landforms	2	**Theory** **Theory** **CC 1C: Human Geography** **Unit 1:** 8. Classification of Urban Settlements; Functional classification of towns Special class	 5 5	**Theory** **DSE 1A : ECONOMIC GEOGRAPHY** **UNIT: 1** 8. Cotton Textile Industry, Petro-Chemical Industry Special class	 5 5
	Sem-II (G)		**Sem-IV (G)**		**Sem-VI (G)**	
Jan	**Theory** **CC – 1B Climatology, Soil and Biogeography** **Unit I:** 1. Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere. 2. Horizontal and vertical distribution of temperature	 5 5			**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 1. Meaning and Classification of Hazards and Disasters.	3
Feb	**Theory** **CC – 1B Climatology, Soil and Biogeography** **Unit I:** 3. Forms of precipitation and types of rainfall 4. Tropical and Temperate Cyclones, Climatic Classification (Koppen)	 5 5			**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 1. Meaning and Classification of Hazards and Disasters.	2
Mar	**Theory** **CC – 1B Climatology, Soil and Biogeography** **Unit I:** 5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	 5			**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 2. Approaches to hazard study: Risk perception and vulnerability assessment.	 2

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

For Chaitali Goari
Ranajit Ghosh

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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	**Theory:** **CC1A Geomorphology and Cartography** **Unit 1:** 2. Lithosphere – Internal Structure of Earth based on Seismic Evidence. **Practical** **CC1A Geomorphology and Cartography** **Unit 2:** 1. Linear and Comparative scale	**3** **2**	**Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 1. Simple Conical projection with one standard parallel	**3**	**Practical** **SEC 1 – Computer Basics and Computer Applications** 1. Numbering Systems; Binary Arithmetic	**5**
Aug	**Theory:** **CC1A Geomorphology and Cartography** **Unit 1:** 2. Lithosphere – Internal Structure of Earth based on Seismic Evidence. **Practical** **CC1A Geomorphology and Cartography** **Unit 2:** 1. Linear and Comparative scale	**2** **3**	**Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 1. Simple Conical projection with one standard parallel	**2**	**Practical** **SEC 1 – Computer Basics and Computer Applications** 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**
Sept	**Theory:** **CC1A Geomorphology and Cartography** **Unit 1:**		**Practical** **CC 1C:** **Unit II: Map Projection and Map**		**Practical** **SEC 1 – Computer Basics and Computer**	

	3. Plate Tectonics and its associated landforms **Practical** **CC1A Geomorphology and Cartography** **Unit 2:** 2. Proportional diagrams: Circles and squares	**3** **3**	**interpretation** 2. Cylindrical Equal Area projection	**2**	**Applications** 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**
Oct	**Theory:** **Theory:** **CC1A Geomorphology and Cartography** **Unit 1:** 3. Plate Tectonics and its associated landforms **Practical** **CC1A Geomorphology and Cartography** **Unit 2:** 2. Proportional diagrams: Circles and squares	**3** **2**	**Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 2. Cylindrical Equal Area projection	**2**	**Practical** **SEC 1 – Computer Basics and Computer Applications** 3. Preparation of Annoted Diagrams and its interpretation: Scatter diagram and Histogram	**3**
Nov	Practice classes	**5**	Practice classes	**5**	**Practical** **SEC 1 – Computer Basics and Computer Applications** 3. Preparation of Annoted Diagrams and its interpretation: Scatter diagram and Histogram Practice classes	**2** **5**

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

			Questionnaire on Waste Management			

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DEPARTMENT OF GEOGRAPHY
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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	**Theory:** **CC-1. GEOTECTONICS AND GEOMORPHOLOGY** **Unit 2: Geomorphology** 1.Degradational processes: Weathering, mass wasting and resultant landforms **CC-2: Cartographic Techniques and Geological map study** 7. Types of rocks and minerals. Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena **Practical** **CC2 (Practical) Cartographic Techniques and Geological map study** 4. Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure); Drawing ofGeological section and Interpretation of the Map.	**4** **3** **3**	**Theory** **CC7: GEOGRAPHY OF INDIA** **Unit 1: Geography of India** 1. Geology and physiographic divisions 2. Climate, soil and vegetation: Characteristics and classification	**2** **3**	**Theory** **CC-11. RESEARCH METHODOLOGY AND FIELD WORK** **Unit 1: Research Methodology** 1. Research in Geography: Meaning, types and significance **DSE-2 : POPULATION GEOGRAPHY** **Unit 1:** 1. Development of Population Geography; Relation between Population Geography and Demography 2. Determinants of Population Dynamics; Concept of Optimum Population	**5** **2** **3**
Aug	**Theory:** **CC-1. GEOTECTONICS AND GEOMORPHOLOGY** **Unit 2: Geomorphology** 2. Models of landscape evolution: Views of Davis, Penck, and Hack **CC-2: Cartographic Techniques and Geological map study**	**3**	**Theory** **CC7: GEOGRAPHY OF INDIA** **Unit 1: Geography of India** 3. Population: Distribution, growth, structure and policy 4. Distribution of population by race, caste, religion, language, tribes	**2** **3**	**Theory** **CC-11. RESEARCH METHODOLOGY AND FIELD WORK** **Unit 1: Research Methodology** 2. Significance of Literature review in research **DSE-2 : POPULATION**	**5**

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

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

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

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

May	**Theory** **CC3 (Theory) – Human Geography** **Unit 2: Society, Demography and Ekistics** 8. Functional Classification of urban settlements **CC4 (Theory) – Cartograms, Survey and Thematic Mapping** 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite Practice classes	 **3** **2** **5**	**Theory** **CC-10. ENVIRONMENTAL GEOGRAPHY** 7. Concept and Issues related to Bio-diversity Practice classes	 **5** **7**	**Theory** **DSE - 3 : RESOURCE GEOGRAPHY** **Unit 2:** 3. Distribution, Problems and Management of Energy Resourcesin Indian Context: Conventional (Coal) and Non-Conventional (Solar) 4. Power resources and problems with reference to Petroleum Practice classes	 **5** **5** **7**
June	**Theory** **CC3 (Theory) – Human Geography** **Unit 2: Society, Demography and Ekistics** 8. Functional Classification of urban settlements **CC4 (Theory) – Cartograms, Survey and Thematic Mapping** 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite Special class	 **2** **3** **5**	**Theory** **CC-10. ENVIRONMENTAL GEOGRAPHY** 8.Environmental Programs and Policies on Forest and Wetland: National and Global Special class	 **5** **5**	**Theory** **DSE-3: RESOURCE GEOGRAPHY** **Unit 2:** 5. Contemporary Energy Crisis and Future Scenario 6. Sustainable Resource Development Special class	 **5** **5** **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	**CC1 Theory: Geotectonics and Geomorphology** Unit 1: 1. Earth's tectonic and structural evolution with reference to geological time scale **CC2 (Theory):** 1. Maps: Classification and Types. Components of a Map	5 3	**CC 6 (Theory):** Unit 1 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 **CC 6 (Practical):** 1. Construction of data matrix with each row representing an aerial unit (districts / blocks / mouzas / towns) and corresponding columns of relevant attributes. **SEC 1** 1. Numbering Systems; Binary Arithmetic	5 5 7	**CC 11(Theory):** Unit 2 1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork **CC 12(Theory):** Unit 1 1. Definition, Concepts and Principles of Remote Sensing (RS): Types of Air Photo, RS satellites, sensors and platforms. Unit 2 1. Definition and Components of Geographical Information System (GIS) and raster and vector data structures	5 5 5
Aug	**CC1 Theory: Geotectonics and Geomorphology** Unit 1: 2. Earth's interior with special reference to seismology. **CC2 (Theory):** 1. Maps: Classification and Types. Components of a Map	5 2	**CC 6 (Theory):** Unit 1 2. Collection of data and formation of statistical tables Unit 2 1. Central tendency: Mean, median, mode, partition values **SEC 1** 1. Numbering Systems; Binary Arithmetic 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 5 3 4	**CC 11(Theory):** Unit 2 2. Field techniques and tools: Questionnaires (open, closed, structured, non-structured). Interview with special reverence to focused group discussions. **CC 12(Theory):** Unit 1 2. EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS. Unit 2 2. Principles of preparing attribute tables and overlay analysis	5 5 5
Sept	**CC1 Theory: Geotectonics and Geomorphology** Unit 1:3. Concept of Isostasy:Theories	5	**CC 6 (Theory):** Unit 2 2. Measures of dispersion range, mean deviation, standard deviation, coefficient of variation	5	**CC 11 (Practical):** Preparation of Field report **CC 12(Theory):** Unit 1 3. Principles of False	5

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

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

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

	cover maps **CC4 (Practical)** 2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.	3	Smoothing time series by Least Square and/or Moving Average Method	3		
June	**CC3 (Theory):** Unit 1 4. Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world **CC4 (Practical)** 2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method. Practice classes	3 3 6	**CC8 (Theory):** Unit 2 7. Strategies for Regional Development in India 8.NITI Aayog and its Functions **SEC -2 (Practical)** 4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method Practice classes	5 5 6 5	**CC14 (Practical):** Preparation of Field report **DSE – 4 (Theory)** Unit: 2 5. Biomes – Concept and Classification;Tropical Rainforest and Temperate Grassland 6. Threat to Biodiversity- Causes, Consequences and Conservation Practice classes	5 5 5 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	**Theory:** **CC-1. GEOTECTONICS AND GEOMORPHOLOGY** **Unit 2: Geomorphology** 5. Types of rocks, mineralogical composition of igneous rocks; Landforms on igneous rocks with special reference to Granite and Basalt **Practical** **CC2 (Practical) Cartographic Techniques and Geological map study** 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.	4 3	**Theory** **CC-5. Climatology** **Unit 1: Elements of the Atmosphere** 1. Nature, composition and layering of the atmosphere, 2. Insolation: controlling factors. Heat budget of the atmosphere.	2 3	**Theory** **DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY** **Unit 1: Cultural Geography** 1. Definition, Scope and Content of Cultural Geography 2. Development of Cultural Geography	3 2
Aug	**Theory:** **CC-1. GEOTECTONICS AND GEOMORPHOLOGY** **Unit 2: Geomorphology** 6. Karst landforms: Surface and sub-surface **Practical** **CC2 (Practical) Cartographic Techniques and Geological map study** 3. Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite),Preparation of Relative Relief Map, Slope map (Wentworth), and	3 2	**Theory** **CC-5. Climatology** **Unit 1: Elements of the Atmosphere** 3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences. 4. Greenhouse effect and importance of ozone layer	2 3	**Theory** **DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY** **Unit 1: Cultural Geography** 3. Concept of Cultural Hearth, Realm; Cultural Landscape 4. Cultural Innovation and Diffusion; Diffusion of Major World Religions	3 2

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

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

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

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

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

Month	Sem-II (H)	No. of Classes	Sem-IV (H)	No. of Classes	Sem-V (H)	No. of Classes
JAN	Theory: CC 4: Development of Media in India and Bengal Unit 2: Indian Press – Some Major Journals and Newspapers of PreIndependence days Bengal Gazette and James Augustus Hickey, Samachar Darpan, Calcutta Journal and James Silk Buckingham, Sambad Kaumudi Remedial session	12	Theory: CC 10 : Media Ethics and the Law Unit-I Ethical Framework And Media practice Constitution of India Indian Penal Code, 1860 Freedom of expression Article19(1)(a) and article 19 (2) Freedom of expression and defamation- Libel and slander Issues of privacy and Surveillance in Society Right to Information Working journalist act Contempt of court Remedial session	13	Practical: DSE 4: Community Outreach Programme Step I: Ethnographic studies Participatory development Sustainable development Community outreach programme Problem identification Literature review Remedial session	9

FEB	Theory: CC 4: Development of Media in India and Bengal Unit II: Contd. Samachar Chandrika, Bengal Spectator, Parthenon , Gyananweshan , SambadPravakar , Yugantar Remedial session	10	Theory: CC 10 : Media Ethics and the Law Unit 2: Media Technology and Ethical Parameters Live reporting and ethics Legality Ethicality of Sting Operations, Discussion of Important cases-eg-Operation Westend Phone Tapping etc Ethical issues in Social media (IT Act 2000, Sec66A and the verdict of The supreme court) Some Related laws- Relevant sections of Broadcast Bill, NBA guidelines Remedial session	14	Practical: DSE 4: Community Outreach Programme Step II: Research question Hypothesis Research design Remedial session	7

MAR	Theory: CC 4: Development of Media in India and Bengal Unit 3: Role of Derozio , Sishir Basu & Amritabazar Patrika , Harish Chandra Mukhopadhyay & Hindoo Patriot Remedial session	9	Theory: CC 10: Media Ethics and the Law Unit 3- Representation and ethics Advertisement and Women Pornography 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 Remedial session	15	Practical: DSE 4: Community Outreach Programme Step III: Data collection: Survey Focus group discussion Personal interview Remedial session	7
APRIL	Theory: CC 4: Development of Media in India and Bengal Unit 3: Contd. Brahmabandhab Upadhyay, Raja Rammohan Roy, Gandhiji as a political communicator, journalist and editor Remedial session	9	Theory: CC 10: Media Ethics and the Law Unit 4: Media and Regulation Regulatory bodies, Codes and Ethical Guidelines Self Regulation MediaContent-DebatesonmoralityandAccountability: Taste,CultureandTaboo Censorship and media debates Remedial session	13	Practical: DSE 4: Community Outreach Programme Step IV: Data presentation through pie chart, bar chart etc Data analysis Remedial session	7

MAY	Theory: CC 3: Reporting and Editing for Print UNIT 2: Interviewing/Types of news leads Interviewing: doing the research, setting up the interview, conducting the interview News Leads/intros, Structure of the News Story–Inverted Pyramid style; Lead: importance, types of lead; body of the story; Attribution, verification Remedial session	11	Theory: CC 10: Media Ethics and the Law Unit 5: Media and Social Responsibility Economic Pressures Media reportage of marginalized sections- children, dalits, tribals, Gender Media coverage of violence and related laws - inflammatory writing(IPC353) Sedition- incitement to violence, hate speech. RelevantCaseStudies on defamation, contempt of court Remedial session	14	Practical: DSE 4: Community Outreach Programme Step V: Objective wise data interpretation Findings Conclusion Further Suggestion Remedial session	6

JUNE	Theory: CC 3: Reporting and Editing for Print Unit II: Contd. Articles, features, types of features and human interest stories, leads for features, difference between articles and features. Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test	10	Mock test: Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test Mock test 3 of 60 marks and question discussion after Mock test Mock test 4 of 60 marks and question discussion after Mock test Mock test 5 of 60 marks and question discussion after Mock test	10	Practical: DSE 4: Community Outreach Programme Step VI: Sorting out references Report Presentation	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	Theory: CC2: Introduction to Media and Communication Unit II: Communication and Mass Communication Definition of Communication and its Process Forms of Communication: Verbal and Non-verbal Communication Levels of communication: Intra, Inter, Group, Organizational Remedial session	9	Theory: CC 5: Introduction to Broadcast Media: Radio Unit I: Development of Radio Concept of wireless communication, Electromagnetic wave Radio's characteristics as an audio medium Evolution of radio in India and around the world AIR and its role a medium of mass communication , AIR, BBC,VOA-management and comparative profile , Internet radio, HAM Radio Remedial session	11	Theory: DSE 1: Communication Research & Methodology Unit I: Introduction to Research concept of research and it's methodology Communication research 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 Remedial session	11

AUG	Theory: CC2: Introduction to Media and Communication Unit II: Communication and Mass Communication Levels of communication: Public Communication, Mass line Communication, Mass Communication and its Process Model vs Theory (Linear to Non-linear) Aristotle's Model of Communication Laswell Model Shanon Weaver Model SMCR Model Wilbur Schramm model Remedial session	11	Theory: CC 5: Introduction to Broadcast Media: Radio Unit 2- Radio news Types of radio news bulletins and their structures, Style and presentation of Radio news , News reader- qualities and duties , Radio newsroom- structure and function , OB VAN, News production, Live broadcasting, News Service Division Remedial session	14	Theory: DSE 1: Communication Research & Methodology Unit II: Methods of Media Research Variables and its types Qualitative-Quantitative Technique, Content Analysis, Survey Method, Observation Methods, Experimental Studies, Case Studies, Narrative Analysis, Historical research. Remedial session	13

SEPT	Theory: CC2: Introduction to Media and Communication Unit II: Communication and Mass Communication Normative Theories of the Press: Authoritarian theory Libertarian theory Communist media theory Social responsibility theory Media and the Public Sphere: Formation of public sphere (State, market and civil society) And the formation of public opinion Remedial session	9	Theory: CC 5: Introduction to Broadcast Media: Radio Unit 3: Radio Programme Radio interview, Types format of the interview, Panel discussion, Radio talk, Radio features, Radio package, Illustrated reading, Storytelling Remedial Session	12	Theory: DSE 1: Communication Research & Methodology Unit III: Sampling Sampling, Need for Sampling, Representativeness of the Samples, Universe and Population Sampling Methods, Probability sampling and its types Non probability sampling and its types Sampling Error and Non sampling Error Remedial session	11

OCT	Theory: CC1: Introduction to Journalism Unit II: Different Forms of print-Ahistorical Perspective Yellow journalism Penny press Tabloid press Reporters-Print to electronic to digitalization Remedial session	7	Theory: CC 5: Introduction to Broadcast Media: Radio Unit 4: Radio Production & editing Art of scripting, Uses, norms of microphones, different forms of microphones, Acoustic treatment of audio studio Remedial session	9	Theory: DSE 1: Communication Research & Methodology Unit II: Contd. Tools of data collection: Primary and Secondary data- Questionnaire: Open and close-ended question Focus Group Discussion Interview Fieldwork through Surveys, Telephonic surveys, Online Polls, Published and Unpublished work. Remedial session	8

NOV	Theory: CC1: Introduction to Journalism Unit II: Different Forms of print-Ahistorical Perspective Citizen journalism-from letter to the editor to WhatsApp Robert Gunning: Principles of clear writing Rudolf Flesch: Readability Test Remedial session	9	Theory: CC 5: Introduction to Broadcast Media: Radio Unit 4: Contd. Digital editing- sound card etc , Uses of Sound effects, Digital Editing consoles, audio mixing techniques Digital editing through Sound Wrap- up, crossfade , Editor & Editing- dos and don'ts , Production and post-production, Radio programme budget Remedial session	13	Theory: DSE 1: Communication Research & Methodology Unit IV: Methods of Analysis and report writing Data Analysis Techniques; Coding and Tabulation, Non-Statistical Methods: Descriptive and Historical Method Working with Archives Library Research Working with the Internet as a source Writing Citations, Bibliography Writingtheresearchreport Remedial session	12

DEC	Theory: CC1: Introduction to Journalism Unit III: Understanding the Structure and Construction of News Organising a news story, Inverted pyramid (5W's and 1H) Criteria for newsworthiness, Principles of news selection Use of archives, sources of news, use of internet Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test	5	Theory: CC 5: Introduction to Broadcast Media: Radio Unit 5: FM broadcasting Emergences of Public & Private FM in India, Format of FM Programme Popularity and acceptance of FM among the audience, Market potentiality of FM programme, Radio in rural India Community radio- scope and applications Community Radio in India, Nepal & Bangladesh, Content and coverage of rural based programme in Radio Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test	11	Theory: DSE 1: Communication Research & Methodology Unit V: Ethnographies and other Methods Readership and Audience Surveys Ethnographies, textual analysis, discourse analysis Ethical Perspectives of mass media research Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test	12

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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	**Theory:** **CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period** Unit 1: Pre-Islamic Period (500-622 A. D. CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat 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.	**4** **4** 2	**Theory** **CC5:** Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa CC7: History of Arabic Literature in Egypt: Unit: A,B&C SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1 **Theory:** **CC1C: Prose :(Islamic medieval & modern period)** **Unit :6 Sura Hujrat** **Unit:7 Sahih Hadith** **SEC1:** Grammar ,translation & latter writing Unit 1	**4** **5** 2 3 2	**Theory** **CC11: Prose (Modern Period unit 1)** Unit 2: Marta al Bania CC12: Poetry (**Modern Period unit 1)** **Unit 3: Ustaj Md. Abduhu** **DSE1: History of Islam, Rhetoric, Prosody, & Philology** **Unit 1: History of Islam** **Theory:** **SEC3: Specific literary feature of modern Arabic Literature**	**5** **5** 2 2
Aug	**Theory:** **CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period** Unit 1: Pre-Islamic Period (500-622 A. D. CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat 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.	**4** 3 3	**Theory** **CC5:** Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa CC7: History of Arabic Literature in Egypt: Unit: A,B&C SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1 **Theory:** **CC1C: Prose :(Islamic medieval & modern period)** **Unit :6 Sura Hujrat** **Unit:7 Sahih Hadith** **SEC1:** Grammar ,translation & latter writing Unit 1	**4** **6** **2** 1 1	**Theory** **CC11: Prose (Modern Period unit 1)** Unit 2: Marta al Bania CC12: Poetry (**Modern Period unit 1)** **Unit 3: Ustaj Md. Abduhu** **DSE1: History of Islam, Rhetoric, Prosody, & Philology** **Unit 1: History of Islam** **Theory:** **SEC3: Specific literary feature of modern Arabic Literature**	**3** **4** 3 2
Sept	**Theory:** **CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period** Unit 1: Pre-Islamic Period (500-622 A. D. CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat Unit :3 Sahih Hadith	**4** **4**	**Theory** **CC5:** Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa CC7: History of Arabic Literature in Egypt: Unit: A,B&C SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1	**4** **5** **2**	.**Theory** **CC11: Prose (Modern Period unit 1)** Unit 2: Marta al Bania CC12: Poetry (**Modern Period unit 1)** **Unit 3: Ustaj Md. Abduhu** **DSE1: History of Islam, Rhetoric, Prosody, & Philology** **Unit 1: History of Islam**	**4** **4** 2

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

	Unit :3 Sahih Hadith					**Unit 1: History of Islam**	
	Theory: **GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period** 2 Unit 1: Pre-Islamic Period (500-622 A. D.		**Theory:** **CC1C: Prose :(Islamic medieval & modern period)** **2** **Unit :6 Sura Hujrat** **Unit:7 Sahih Hadith** **SEC1:** Grammar ,translation & latter writing Unit 1 1			**Theory:** **SEC3: Specific literary feature of modern Arabic Literature** **2**	
	Sem-II (H)G		**Sem-IV (H)G**			**Sem-VI (H)G**	
Jan	**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**	**Theory:** **CC8:** Poetry (Abbasid & Fatimid) 2) المتنبي نعد المشرفية والعوالي **(Poetry of Mutanabbi)**	**4**		**Theory:** **CC13:** Prose (Modern Period Unit -II) 3) الثقافة الهندية أحمد أمين	**4**
			CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A	**3**		**CC14:** Poetry (Modern Period Unit -II) 4) صلوات في هيكل الحب أبو القاسم الشابي	**3**
	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**	**CC10:** Development ofModern Arabic Novel, short-story, Drama & Formation of Literary Groups **A & B**	**5**		**Theory:** **DSE3:** Outline History of Modern Arab World & Composition Group-A	**2**
	Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference toIbn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan	3	**SEC2:** Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: **1)**	**2**		DSE-1B Outline History of Modern Arab World	**2**
			Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period)) 1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم 5) الحماسة العباس بن مرداس السلمي	**2**			
			SEC2: Grammar ,translation & latter writing Unit-a)	**2**			
Feb	**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**	**Theory** **CC8:** Poetry (Abbasid & Fatimid) 2) المتنبي نعد المشرفية والعوالي **(Poetry of Mutanabbi)**	**3**		**Theory** **CC13:** Prose (Modern Period Unit -II) 3) الثقافة الهندية أحمد أمين	**3**
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			Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period) 1) حسان بن ثابت وقال يرثي النبي صلى الله				

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

Wasim Raja

Signature of the Teacher

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

Suri 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
Jul	CC01: Calculus Unit-2:Reduction Formula CC02: Algebra Unit 2: Equivalance Relation and Partition	5+1 3+1	CC06: Group Theory-1 Unit-1:Groups and its elementary property.	12+2	DSE21: Probability and Statistics Unit-1: Sample space, probability axioms, real random variables, cumulative distribution function, probability mass/density functions, mathematical expectation, moments	14+1
Aug	CC01: Calculus Unit-2:Parametric Equation and Parametrization CC02: Algebra Unit 2: Functions, Cardinality of a set	4+1 4+1	CC06: Group Theory-1 Unit-2: Sub-groups and examples, Product of two sub-group Unit-3: Cyclic groups and properties, Permutations and Permutation groups	5+1 7+1	DSE21: Probability and Statistics Unit-1: Some discrete and continuous distributions Unit-2: Joint distributions and its properties. marginal and conditional distributions, expectation of function of two random variables	3+1 11+1
Sept	CC01: Calculus Unit-2:Arc length of curve CC02: Algebra Unit 2: Well ordering property of positive integers, division algorithm	4+1 4+1	CC06: Group Theory-1 Unit-3: Symmetric and Alternating groups, Cosets, Lagrange's theorem and consequences including Fermat's Little theorem	12+2	DSE21: Probability and Statistics Unit-2: Bivariate normal distribution, correlation coefficient, joint moment generating function, linear regression for two variables Unit-3: Chebyshev's inequality, law of large numbers, Central Limit	6+1 8+1

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

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

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

					and evaluation	

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	**Theory:** **CC1: Geometry** Unit 3: Reflection properties of conics, translation and rotation of axes and second degree equations	**3+1**	**Theory** **CC7: Numerical Methods** Unit 4: Interpolation: Lagrange and Newton's methods, Error bounds, Finite difference operators. Gregory forward and backward difference interpolations. **Practical** **CC7: Numerical Methods Lab** Unit 7: 1. Solution of transcendental and algebraic equations by (a) Newton Raphson method. **Theory** **SEC1: Logic** Unit 1: Introduction, propositions, truth table, negation	**5+1** **3+1** **3**	**Theory** **CC11: Partial Differential Equations and Applications** Unit 3: The Cauchy problem of 2nd order partial differential equation, Cauchy-Kowalewskaya theorem, **CC12: Mechanics I** Unit 1: Co-planar forces. Astatic equilibrium. Friction.	**4+2** **6**
Aug	**Theory:** **CC1: Geometry** Unit 3: Classification of conics using the discriminant, : polar equations of conics	**3+2**	**Theory** **CC7: Numerical Methods** Unit 4: Numerical differentiation: Methods based on interpolations, methods based on finite differences. **Practical** **CC7: Numerical Methods Lab** Unit 7: 1. Solution of transcendental and algebraic equations by (b) Regula Falsi method. **Theory** **SEC1: Logic** Unit 1: Conjunction and disjunction. Implications, biconditional propositions	**4+1** **3+2** **4**	**Theory** **CC11: Partial Differential Equations and Applications** Unit 3: Cauchy problem of an infinite string, Initial and Boundary Value Problems. **CC12: Mechanics I** Unit 1: Equilibrium of a particle on a rough curve. Virtual work, Forces in three dimensions.	**3+2** **7**
Sept	**Theory:** **CC1: Geometry** Unit 3 Spheres, Cylindrical surfaces	**3+1**	**Theory** **CC7: Numerical Methods** Unit 5: Numerical Integration: Newton Cotes formula, Trapezoidal rule, Simpson's 1/3rd rule, Simpsons 3/8th rule, Weddle's rule, Boole's rule. Midpoint rule, Composite Trapezoidal rule, **Practical** **CC7: Numerical Methods Lab** Unit 7: 2. Solution of system of linear equations	**4+1** **3+1**	.**Theory** **CC11: Partial Differential Equations and Applications** Unit 3: Semi-Infinite String with a fixed end, Semi-Infinite String with a Free end. **CC12: Mechanics I** Unit 1: General conditions of equilibrium, Centre of gravity for different	**3+1** **7+1**

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

	Theory **CC4: Differential Equation** Unit 1: Lipschitz condition and Picard's Theorem (Statement only). General solution of homogeneous equation of second order.	**6**	**Theory** **CC9: Multivariate Calculus** Unit 3: Vector operators, Gradient of a scalar function, directional derivatives. **Theory** **SEC2: Graph Theory** Unit 1: Definition, examples and basic properties of graphs.	**4** **4**	**Theory** **DSE4: Mechanics-II** Unit 1: Interpretation of Newton's laws of motion, Galilean transformation, Concept of absolute length and time. **Project Work** **PW01:**	**8** **6+2**
Feb	**Theory** **CC4: Differential Equation** Unit 1: .Principle of super position for homogeneous equation, Wronskian: its properties and applications.	**4**	**Theory** **CC9: Multivariate Calculus** Unit 3: Definition of vector field, divergence and curl, Line integrals. **Theory** **SEC2: Graph Theory** Unit 1: Pseudo graphs. complete graphs, Bi-partite graphs isomorphism of graphs.	**4** **6**	**Theory** **DSE4: Mechanics-II** Unit 1: Limitations of Newton's laws in solving problems. **Project Work** **PW01:**	**7** **8+2**
Mar	**Theory** **CC4: Differential Equation** Unit 1: Linear homogeneous and non-homogeneous equations of higher order with constant coefficients, Euler's equation.	**6**	**Theory** **CC9: Multivariate Calculus** Unit 3: Fundamental theorem for line integrals, conservative vector fields, Application of line integral to Workdone. **Theory** **SEC2: Graph Theory** Unit 2: Eulerian circuits, Eulerian graph, semi-Eulerian graph and theorems.	**2+1** **7**	**Theory** **DSE4: Mechanics-II** Unit 3: Constraints and their classifications, Lagrange's equation of motion for holonomic system. **Project Work** **PW01:**	**10** **8**
Apr	**Theory** **CC4: Differential Equation** Unit 1: Method of undetermined coefficients, method of variation of parameters.	**4**	**Theory** **CC9: Multivariate Calculus** Unit 4: Green's theorem, surface integrals. **Theory** **SEC2: Graph Theory** Unit 2: Hamiltonian cycles and theorems, Representation of a graph by a matrix, the adjacency matrix, incidence matrix, weighted graph.	**4+1** **8**	**Theory** **DSE4: Mechanics-II** Unit 3: Gibbs-Appell's principle of least constraint. **Project Work** **PW01:**	**8** **12**
May	**Theory** **CC4: Vector Calculus** Unit 3: Triple product, introduction to vector functions. Operations with vector-valued functions, Limits and continuity of vector functions.	**6**	**Theory** **CC9: Multivariate Calculus** Unit 4: Integrals over parametrically defined surfaces. Stoke's theorem. **Theory** **SEC2: Graph Theory** Unit 3: Travelling salesman's problem, shortest path, Tree and their properties, spanning tree.	**4** **8**	**Theory** **DSE4: Mechanics-II** Unit 3: Work energy relation for constraint forces of shielding friction **Project Work** **PW01:**	**7** **10**
June	**Theory** **CC4: Vector Calculus** Unit 3: Differentiation and integration of vector functions.	**4+1**	**Theory** **CC9: Multivariate Calculus** Unit 4: The Divergence theorem. **Theory** **SEC2: Graph Theory** Unit 3: Dijkstra's algorithm, Warshall algorithm.	**2+1** **7**	**Theory** **DSE4: Mechanics-II** Unit 1 & 3: Revision of Mechanics – II. **Project Work** **PW01:**	**4** **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	**CC01: Differential Equations** **Unit 4:** Differential equations and mathematical models. General, particular solution **CC02: Algebra** **Unit 3:** Systems of linear equations	**3+1** **3+1**	**CC07: Numerical Methods** **Unit 1:** Algorithms, Convergence, Errors: Relative, Absolute. Round off, Truncation **CC07: Numerical Methods Lab (Practical)**	**2+1** **4**	**CC11: Partial Differential Equations and Applications** **Unit 1:** 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	**CC01: Differential Equations** **Unit 4:** Explicit, implicit and singular solutions of a differential equation. **CC02: Algebra** **Unit 3:** Row reduction and echelon forms	**3+1** **2+1**	**CC07: Numerical Methods** **Unit 2:** Transcendental and Polynomial equations: Bisection method, Newton's method, Secant method **CC07: Numerical Methods Lab (Practical)**	**3+2** **4**	**CC11: Partial Differential Equations and Applications** **Unit 1:** Canonical Forms of First-order Linear Equations. Method of Separation of Variables for solving first order partial differential equations. **Unit 2:** Derivation of Heat equation, Wave equation and Laplace equation	**12+2** **6+2**
Sept	**CC01: Differential Equations** **Unit 4:** Exact differential equations and integrating factors	**4+1**	**CC07: Numerical Methods** **Unit 2:** Regula falsi method, fixed point iteration, Newton-Raphson method. Rate of convergence of these methods	**3+2** **4**	**CC11: Partial Differential Equations and Applications** **Unit 2:** Classification of second order linear equations as hyperbolic,	**14+2**

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

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

May	**CC04: Differential Equation** **Unit 3:** Equilibrium points, Interpretation of the phase plane, Power series solution of a differential equation about an ordinary point,	**6+2**	**CC09 Multivariate Calculus** **Unit 2:** Double integration over rectangular region, double integration over non-rectangular region, Double integrals in polar co-ordinates	**12+2**	**DSE43: Mechanics-II** **Unit 2:** Stress in continuum body **PW01: Project Work** .	**6+2** **8**
June	**CC04: Differential Equation** **Unit 3:** Solution about a regular singular point Group discussions and evaluation	**4** **4**	**CC09 Multivariate Calculus** **Unit 2:** 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 Group discussions and evaluation	**10+2** **2**	**DSE43: Mechanics-II** **Unit 2:** Stress quadric **PW01: Project Work** Group discussions and evaluation	**6+2** **8** **2**

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

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

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

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
Jul	**Theory:** **CC02:Algebra** Unit 1:Polar representation of complex numbers,nth roots of unity ,De Moivre's theorem for rational indices and its applications	**6+1**	**Theory** **CC05:Theory of Real Functions** Unit 2: Differentiability of a function at a point and in an interval,Caratheodorystheorem,algebra of differentiable functions **Theory** **SEC1: Set** Unit2:Sets,Subsets,set operations and the laws of set theory and Venn diagrams	**8+2** **3**	**Theory:DSE11:Linear Programming** Unit 2:Duality,Formulation of dual problem	**8+4**
Aug	**Theory:** **CC02** Unit 1:Theory of equations,Relation between roots and coefficients	**3+2**	**Theory** **CC05:Theory of real function** Unit02:Relative extrema,interiorextremum,Rollestheorem,Mean value theorem **Theory** **SEC1: Set** Unit 2:Examples of finite and infinite sets,Finite sets and counting principle	**7+1** **3**	**Theory** **DSE11:Linear Programming** Unit 2:Primal dual relationships,economic interpretation of the dual,Dual simplex method	**9+2**
Sept	**Theory:** **CC2:Algebra** Transformation of equation,Descartes rule of signs,Cubic equations	**5+2**	**Theory** **CC05:Theory of real function** Unit2:Intermediate value property of derivatives,Darbouxtheorem,Applications of mean value theorem to inequalities and approximation of polynomials **Theory** **SEC1:Set** Unit 2:Empty set and property of empty set,Standard set operations,Classes of sets,power of a set	**8+3** **3**	.**Theory** **DSE11:Linear Programming** Unit 2:Transportation problem and its mathematical formulation,north west corner method,least cost method	**8+2**
Oct	**Theory:** **CC02:Algebra** **Biquadratic equation,Reciprocal equation**	**3**	**Theory** **CC05:Theory of real functions** Unit2:Application of differential calculas,Curvature **Theory** **SEC 1:Set** Unit 3:Difference and symmetric difference of two sets,Set identities	**3** **2**	**Theory** **DSE11:Linear Programming** Unit 3:Vogel approximation method for determination of starting basic solution	**3**

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

	convergence theorem		monotone and continuous functions,Properties of riemannintegral,definition and integrability of piecewise continuous and monotone functions		example of analytic functions,exponential functions	
Apr	**Theory** **CC3:Real Analysis** Unit 2:Subsequences,Divergence criteria,Monotone Subsequence theorem	**4+2**	**Theory** **CC08:Riemann integration and series of functions** Unit 1:Intermediate Value theorem for integrals,Fundamentaltheorem of integral calculas	**8+4**	**Theory:CC13:Complex Analysis:** Logarithmic function,trigonometricfunction,Derivatives of functions,definite integrals of functions,contours	**10+1**
May	**Theory** **CC3:Real Analysis** Unit 2:Bolzano Weierstrass theorem for sequences,Cauchy sequence	**4**	**Theory** **CC908:Riemann integration and series of functions** Unit2:Improper integrals	**6+3**	**Theory:CC13:Complex Analysis:Unit4:**contour integrals and its examples, upper bounds for moduli of contour integrals,Cauchy-Goursat theorem	**8+2**
June	**Theory** **CC3:Real Analysis** **Unit 2:Cauchys Convergence Criterion**	**4+1**	**Theory** **CC08:Riemann integration and series of functions** Unit 2:Beta and Gamma function.	**4+3**	**Theory:CC13:Complex Analysis:Unit 4:** Unit4:Cauchy integral formula and Revision of complex analysis	**4**

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	**Theory:** **CC1: Introduction to Microbiology and Microbial Diversity** Unit 1: History and Development of Microbiology **Practical** **CC1: Introduction to Microbiology and Microbial Diversity** Study of *Rhizopus*, *Penicillium* and*Aspergillus* from permanent slides.	4 2	**Theory** **CC5: Microbial Physiology and Metabolism** Unit 5: Chemolithotrophic and Phototrophic Metabolism **Practical** **CC5: Microbial Physiology and Metabolism** Effect of pH on growth of *E. coli* **Theory** **SEC1: Microbial Diagnosis inHealth Clinics** Unit: 1: Importance of Diagnosis of Disease	8 2 4	**Theory** **CC12: Immunology** Unit 3: Antigen **Practical** **CC12: Immunology** Immunodiffusion by Ouchterlony method. **Theory** **DSE 1: Microbes in Sustainable Agriculture** Unit 1: Soil Microbiology **Practical** **DSE 1: Microbes in Sustainable Agriculture** Isolation of Cellulose degrading organisms using CMC as substrate	8 4 6 2
Aug	**Theory:** **CC2: Bacteriology** Unit 3: Nutrition **Practical** **CC1: Introduction to Microbiology and Microbial Diversity** Study of *Spirogyra* and *Chlamydomonas* from permanent slides.- Study of *Paramecium* and *Plasmodium* from permanent slides.-	6 2 2	**Theory** **CC6: Cell Biology** Unit 5: Cell Cycle and Cancer Eukaryotic Cell Cycle and its Regulation. Mitosis and Meiosis **Practical** **CC6: Cell Biology** Study of different stages of Meiosis from Permanent slide **Theory** **SEC1: Microbial Diagnosis inHealth Clinics** Unit 2: Collection of Clinical Samples (How to collect clinical sample)	4 2 4	**Theory** **CC12: Immunology** Unit 6: Complement System **Practical** **CC12: Immunology** DOT ELISA **DSE 1: Microbes in Sustainable Agriculture** Preparation of Rhizobium as soil inoculants and application	6 4 4
Sept	**Theory:** **CC1: Introduction to Microbiology and Microbial Diversity** Unit 5: Mycology **Practical** **CC2: Bacteriology** Gram's Staining Negative Staining Acid fast Staining-permanent slide	8 2 2 2	**Theory** **CC6: Cell Biology** Unit 5: Cell Cycle and Cancer Development of Cancer, causes of Cancer. **Theory** CC7:**Molecular Biology** Unit3;Transcription in Prokaryotes and Eukaryotes, Transcription: Definition, Promoter, RNA Polymerase, Transcription unit, **Practical** **CC7: Molecular Biology** Estimation of DNA and its purity check and estimation of Protein by using UV Spectrophotometer. **Theory** **SEC1: Microbial Diagnosis inHealth Clinics.** Unit 2: Collection of Clinical Samples (Method of transport of clinical samples to laboratory and storage.)	4 6 2 2	**Theory** **CC11: Industrial Microbiology** Unit 1: Introduction to Industrial Microbiology Unit 4: Down – stream processing **Practical** **CC11: Industrial Microbiology** INDUSTRIAL VISIT	4 9 4

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

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

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

Ramkrishna Roy.

Signature of Teacher
Department of Microbiology
Suri Vidyasagar College

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 INTRODUCTION TO JOURNALISM UNIT- 1 – UNDERSTANDING NEWS INGREDIENTS OF NEWS	9	CC-7 ADVERTISEMENT AND PUBLIC RELATIONS UNIT-1 INTRODUCTION TO ADVERTISEMENT, HISTORY, IMPORTANCE & FUNCTION OF AD. AD. AS A TOOL OF COMMUNICATION	8	CC-12 INTRODUCTION TO FILM STUDIES UNIT -1 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 UNIT -1 THE NEWS PROCESS, SUBJECTIVITY & OBJECTIVETY OF NEWS, PROXIMITY OF NEWS	10	CC-7 UNIT -1 ROLE OF AD. IN MARKETING MIX, PR & AD. , AD. THEORIES AIDA , DAGMAR, MASLOW'S HIERARCHY MODEL, THEORIES APPLIED TO AD.	12	CC-12 UNIT -1 DADA SAHEB PHALKE, NEW THEATRE, PRABHAT STUDIO, NEW TALKIES UNIT-2 STAGES OF FILM MAKING, FILM LANGUAGES, IMAGE & SOUND CODE, REAL FILMIC TIME, MONTAGE, MISE-EN- SCENE	14
SEPTEMBER	CC-1 UNIT 1 ETHICS OF JOURNALISM, HARD NEWS VS. SOFT NEWS, ATTRIBUTION, EMBARGO, VERIFICATION	10	CC-7 UNIT -1 TYPES OF AD. & NEW TRENDS, ECONOMIC , CULTURAL, PSYCHOLOGICAL AND SOCIAL ASPECT OF AD. ETHICAL & REGULATORY ASPECTS OF AD – AAAI, ASCI	14	CC-12 UNIT -3 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 UNIT-1 BALANCE & FAIRNESS, BREVITY, DATELINE, CREDIT LINE, BYLINE	5	CC-7 UNIT -2 AD. THROUGH PRINT, ELECTRONIC & ONLINE MEDIA , TYPES OF MEDIA FOR AD. AD. OBJECTIVES	5	CC-12 UNIT -4 FILM LANGUAGE – SHOT, SCENE, SEQUENCE	6

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

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

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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;
Mehergarh - 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 ascendency 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 Thermedorian 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 polities. Industrialization in the continents, case study of France, Germany and Russia. Emergence of working class and it's 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) Experiment s 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 – (Sahebdhani, 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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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	**Theory:** **CC2:** **A Study of Units for Measuring Concentration of Solutes:**Moles,Equivalents, Osmoles **Principles of Dilution, pH, Buffers** Proteolysis of water, pH, acid-base neutralization curves **Bonds and Forces in Biomolecules** **Colloids,Properties, importance** Colloids: Classification, properties–optical, electrical, electro kinetic. Biological importance of colloids **Practical:** **CC2:** Determination of Oncotic Solution Colloidal solutions	**8** **2**	**Theory** **CC6:** **Origin of the Heartbeat & the Electrical Activity of the heart** Introduction Origin & Spread Of Cardiac Excitation Cardiac action potential. Origin and propagation of cardiac impulse. The Electrocardiogram Electrocardiography –the normal electrocardiogram, electrocardiographic leads,vectorial analysis, the vectorcardiogram, the mean electrical axis of heart. The His bundle electrogram. Cardiac Arrhythmias Cardiac Arrhythmias – Normal cardiac rate. Myocardial Infarctions. Cardioplegic solutions. Electrocardiographic Findings in Other Cardiac & Systemic Diseases, hypertrophy and cardiac myopathy **Practical** **CC7:** Experiments on superficial (plantar) and deep (knee jerk) reflex Measurement of grip strength **Theory SEC1A: Detection of food additives/ adulterants** **Qualitative tests for Food Adulteration** Qualitative test for identifying Food Adulterants in some food samples: Metanil yellow, Rhodamin B, Saccharin.	**8** **4** **3**	**Theory** **CC11:** Introduction Anatomic Considerations The Image-Forming Mechanism (accommodation and visual acuity) The Photoreceptor Mechanism: Genesis of Electrical Responses Visual Pathways and effects of lesions of these pathways **Practical:** Measurement of blood pressure before and after different grades of exercise. Recording of recovery heart-rate after standard exercise. .	**8** **4**

Aug	**Theory:** **CC2: Surface tension, Specific Gravity** Surface tension and Specific Gravity: characteristics, factors influencing and biological applications **Viscosity and Resistance** Viscosity and Resistance characteristics, factors influencing and biological applications **Acids, Bases, Buffers and pH** 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 **Flow and Pressure** Diffusion and Osmosis: osmotic pressure–laws. **Practical:** **CC2:** Determination of enzyme activities (eg. SOD, CAT)	**8** **4**	**Theory** **CC6:** **The Heart as a Pump** Introduction Anatomy of the heart. Properties of cardiac muscle. Cardiac Innervation. Stannius ligature. Mechanical Events of the Cardiac Cycle The cardiac cycle- pressure and volume changes. Heart sounds. Murmurs. Cardiac Output Cardiac output– measurement by application of Fick's principle and dye dilution method, factors affecting. Starling's law of heart. **Dynamics of Blood & Lymph Flow** Introduction Anatomic Considerations Functional morphology of arteries, arterioles, capillaries, venules and veins, sinusoids. General pattern of circulation and significance of branching of blood vessels. Biophysical Considerations Hemodynamics of blood flow. Arterial & Arteriolar Circulation Capillary Circulation Lymphatic Circulation & Interstitial Fluid Volume Venous Circulation **Practical** **CC7:** Reaction time by stick drop test Short term memory test (shape, picture word) **Theory SEC1A:** Qualitative test for identifying FoodAdulterants in some food samples: Monosodium glutamate, Aluminium foil, Chicory.	**9** **4** **3**	**Theory** **DSE2B:** Color Vision Other Aspects of Visual Function Eye Movements Errors in visual process **Practical:** **DSE2B:** Determination of Physical Fitness Index by Harvard Step Test (Modified). Determination of VO2max by Queen College step test.	**8** **4**
Sept	**Theory:** **CC2:** **Dialysis and Ultracentrifugation** **Chromatography** **Electrophoresis** **Autoradiography** **Cell Fractionation and Tracer Techniques** **Nanoparticles and its application in Physiology** **Practical:** **CC2:** Practice Determination of Oncotic Solution Colloidal solutions	**8** **2**	**Theory** **CC6:** **Cardiovascular regulatory Mechanisms** Introduction Local Regulatory Mechanisms Cardiac and vasomotor centers, baroreceptors and chemoreceptors, cardiac and vasomotor reflexes. Substances Secreted by the Endothelium Systemic Regulation by Hormones Systemic Regulation by the Nervous System Cardiovascular homeostasis–neural and chemical control of cardiac functions and blood vessels. **Circulation Through special Regions** Introduction Cerebral Circulation Anatomic Considerations Cerebrospinal Fluid The Blood-Brain barrier Cerebral Blood Flow Regulation of Cerebral Circulation Brain Metabolism & Oxygen Requirements **Practical** **CC7:** Two point discrimination test **Theory SEC1A:** Qualitative test for identifying	**8** **2** **3**	**Theory** **DSE2B:** Importance of regular exercise in health and wellbeing. Basic concept of Bioenergetics, Energy sources during exercise (Phosphagen, Anaerobic system and Aerobic system). Cardio-respiratory responses during different grades of exercise. **Practical:** **DSE2B:** Measurement of body fat percentage. Six minute walk test.	**8** **4**

			FoodAdulterants in some food samples: Bisphenol A and Bisphenol S, Chocolate Brown HT, Margarine			
Oct	**Theory:** **CC2:** **Laminar and Streamline Flow** **Poiseuille- Hagen Formula** **Laws of Laplace** **Practical:** **CC2:** Practice Determination of enzyme activities (SOD).	**6** **2**	**Theory** **CC6:** Coronary Circulation Splanchnic Circulation Circulation of the skin Placental & Fetal Circulation **Practical** **CC7:** **Practice** Experiments on superficial (plantar) and deep (knee jerk) reflex Measurement of grip strength **Theory** **SEC1A:** Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in turmeric powder, besan, laddoood	**8** **4** **3**	**Theory** **.DSE2B:** Concept of excess post exercise oxygen consumption (EPOC), physiological fatigue and recovery. Aerobic work Capacity: Measurement, physiological factors and applications Sports injury and its' management**.** **Practical:** **DSE2B:** Determination of endurance time by hand grip dynamometer	**6** **4**
Nov	**Theory:** **CC2:** **Thermodynamics** 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 **Practical:** Practice Determination of enzyme activities (CAT)	**5** **2**	**Theory** **CC6: Cardiovascular Homeostasis in Health & Disease** Introduction Compensation for Gravitational Effects Exercise Inflammation & Wound Healing Shock Cardiovascular adjustment after haemorrhage. Hypovolemic and hypervolemic shock. RTI and atherosclerosis. Hypertension The pulse – arterial and venous. Blood pressure– its measurement and factors affecting. Heart Failure, stroke **Practical** **CC7:** **Practice** Two point discrimination test **Theory SEC1A:** Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in , noodles, chocolate and amriti.	**8** **2** **4**	**Theory** **DSE2B:** Training: Principles of physical training, Training to improve aerobic and anaerobic power. Effect of overtraining and detraining**.** Nutritional supplements and ergogenic aids. Basic idea sports rehabilitation and sports medicine. **Practical:** **DSE2B:** Determination of endurance time by hand grip dynamometer	**8** **2**

Dce	**Theory:** **CC2:** **Revision** **Practical** **Practice** **Examination**	 **4** **4**	**Theory** **CC6:** **Revision** **Practical** **Practice** **Theory SEC1A:** **Revision** **Examination**	 **4** **4** **3**	**Theory** **DSE2B:** **Revision** **Practical** **Practice** **Examination**	 **4** **4**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory **CC4:** **Proteins** Classification of Proteins Definition and classification of proteins Classification, Structure, Nomenclature of proteins and amino acids. **Practical:** **CC4:** Qualitative tests for the identification of physiologically important substances: Hydrochloric acid, lactic Acid,	 **6** **4**	**Theory** **CC8:** Nutrition – BMR, RQ, RDA, SDA, NPU, Biological value of proteins, vitamins and minerals. **Practical:** **CC8:** Quantitative estimation of glucose and sucrose by Benedict's method. **Theory** **SEC2B:** Preparation of blood smear and identification of blood cells.	 **8** **4** **2**	**Theory** **DSE3A:** Constituents of food and their significance. Basal metabolic rate -factors, determination by Benedict-Roth apparatus. Respiratory quotient. Specific dynamic action. Basic concept of energy and units. Calorific value of foods. Body calorie requirements – adult consumption unit **Practical:** **DSE3A:** **Diet Survey (Field Study Record)** Diet survey report (hand-written) of a family (as per ICMR specification): Each student has to submit a report on his/her own family.	**8** **4**

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

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June	**Theory** **CC4:** **Revision** **Practical** **Practice** **Examination**	 **4** **4**	**Theory** **CC8:** **Revision** **Practical** **Practice** **Theory** **SEC2B:** **Revision** **Examination**	 **4** **4** **2**	**Theory** **DSE3A:** **Revision** **Practical** **Practice** **Examination**	 **4** **4**

Debdina Ball

Head
Department of Physiology
Suri Vidyasagar College
Suri, Birbhum

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	**Theory:** **CC1A:** Lipids: Definition and classification. Fatty acids Classification.	2
Aug	**Theory:** **CC1A:** Properties of Fat and Fatty acids—Hydrolysis,Saponification, Saponification number, Iodine number, Hydrogenation, Rancidity-Acid number.	3
Sep	**Theory:** **CC1A:** Phospholipids, Cholesterol & its ester - physiological importance.	2
Oct	**Theory:** **CC1A:** Amino acids, Peptides and Proteins	2
Nov	**Theory:** **CC1A:** Classification andstructure. Structure of peptide bonds.	2
Dec	**Theory:** **CC1A:** Revision Examination	2

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

	CC1B: SDA: definition and importance		**SEC1A:** Anthropometry and its uses	
June	**Theory:** **CC1B:** Revision Examination	2	**Theory:** **SEC1A:** Revision Examination	2

Debolina Ball

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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	**Theory:** **CC2:** **A Study of Enzymes** Structures, coenzymes and Prosthetic Groups Classification- EC nomenclature, Concept of apoenzyme, holoenzyme, coenzyme,cofactors and prosthetic group. Mechanism of Enzyme Action Mechanism of enzyme action: Activation energy, Enzyme-substrate complex, Transition state andProducts. Models of enzyme-substrate interactions. Specificity of enzymes. Kinetics Concept of initial rate, maximum velocity and steady-state kinetics. **Practical:** **CC2:** Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).	**8** **6**	**Theory** **CC5:** Red Blood Cells Haemoglobin– Structure, reactions, biosynthesis and catabolism. Foetal haemoglobin. Abnormal haemoglobins-Sickle-cell anemia and Thalassemia. Different types of anaemia and their causes. **Practical** **CC7:** **Introduction** Preparation of Amphibian Ringer solution Kymographic recording of the movements of perfused heart of toad.	**8** **6**	**Theory** **CC11:** Introduction Anatomic considerations Hair cells **CC12:** **Practical:** Introduction Preparation of mammalian Ringer solution .	**8** **4**
Aug	**Theory:** **CC2:** Michaelis Constant Michaelis constant, Michaelis-Menten equation, Graphical representation of hyperbolic kinetics--Lineweaver-Burk plot. Significance of Km and V_{max}. **Practical:** **CC2:** Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).	**8** **4**	**Theory** **CC5:** Blood Types Blood group – ABO and Rh. Erythroblastosis foetalis. Blood transfusion and its hazards. **Practical** **CC7:** Study of the effects of changes in perfusion fluid pressure, changes in temperature.	**8** **8**	**Theory** **CC11:** Mechanism of hearing Vestibular function Loss of hearing **CC12:** **Practical:** Study of the effects of oxytocin on uterine contraction	**8** **6**

Sept	**Theory:** **CC2:** Modulation of Enzyme Activities 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 **Practical:** **CC2:** Determination of enzyme activities (Amylase)	**8** **4**	**Theory** **CC5:** Plasma, Hemostasis Plasmaproteins– normal values, origin and functions. Hemostasis– factors, mechanism, anticoagulants, procoagulants. Disorders of hemostasis. Hemophilia, thrombosis and embolism **Practical** **CC7:** Study of the effects of calcium and potassium ion concentration on the movement of heart.	**8** **8**	**Theory** **CC11:** Introduction Smell Receptors & Pathways **CC12:** **Practical** Study of the effects of adrenaline on intestinal movements of rat	**8** **6**
Oct	**Theory:** **CC2:** Factors controlling Enzyme Activities Factors influencing enzyme-catalyzed reactions: substrate concentration, enzyme concentration, Max pH, temperature. **Practical:** **CC2:** Practice Determination of enzyme activities (Transaminase).	**6** **2**	**Theory** **CC5:** Lymph Lymph and tissue fluids– formation, circulation, functions and fate. Lymphatic organs- histological structures and functions of lymph gland and spleen. **Practical** **CC7:** Study of the effects of acetylcholine and adrenaline concentration on the movement of heart	**8** **8**	**Theory** **.CC11:** Physiology of Olfaction Taste **Practical:** **CC12:** Study of the effects of adrenaline on uterine movements of rat	**6** **6**

Nov	**Theory:** **CC2:** Isoenzymes, Allosteric Enzymes Pro-enzymes Ribozymes, Abzymes Concept of Rate Limiting Enzymes **Practical:** Practice Determination of enzyme activities (Amylase, Transaminase).	**8** **2**	**Theory** **CC5:** Clinical implications of blood and blood related disorders **Practical** **CC7:** **Practice** Study of the effects of acetylcholine and adrenaline concentration on the movement of heart	**8** **8**	**Theory** **CC11:** Receptor Organs & Pathways Physiology of Taste **Practical:** **CC12:** practice	**6** **4**
Dce	**Theory:** **CC2:** **Revision** **Practical:** **Practice** **Examination**	**4** **4**	**Theory** **CC5:** **Revision** **Practical:** **Practice** **Examination**	**6** **6**	**Theory** **CC11:** **Revision** **Practical:** **Practice** **Examination**	**6** **4**

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**Theory** **CC3:** **Cardiac Muscle** **Morphology** Microscopic and electron microscopic structure of cardiac muscles. **Electrical Properties** **Mechanical Properties** **Metabolism** Neurotransmitters, co transmitters and neuromodulators **Practical:** **CC3:** Isolation and staining of staining of nerve fibers with node (s) of Ranvier ($AgNO_3$) and muscle fiber (H and E). Preparation of Sciatic nerve innervated Gastrocnemius muscle of toad.	**8** **6**	**Theory** **CC10:** **Pulmonary Function** Introduction Properties of Gases Anatomy of the Lungs Mechanics of breathing Gas Exchange in the lungs **Practical:** **CC9:** Kymographic recording of normal movements of rat's intestine in Dale's apparatus	**8** **4**	**Theory** **CC14:** Renal Circulation peculiarities and autoregulation Diuretics Disorders of Renal Functions Diabetes insipidus. **Practical:** **DSE4A:** 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**

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

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

Interdisciplinary Refresher Course in Biological Science under UGC-HRDC, University of Calcutta from25.02.2021 to 10.03.2021

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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
Jul	**Theory:** **CC1A:** A brief idea about acids, base, buffers and indicators.	**2**	**Theory** **CC1C:** Anatomy and histology of the heart. Properties of cardiac muscle. Origin and propagation of cardiac impulse.	**4**	**Theory:** **DSE1A:** Structure and classification of nerves. Origin and propagation of nerve impulse. Velocity of impulse in different types of nerve fiber. .	**4**
Aug	**Theory:** **CC1A:** pH- definition, significance and maintenance of pH in Blood	**3**	**Theory:** **CC1C:** Cardiac cycle: events. Heart sounds. Heart rate. Cardiac output:methods of determination (dye dilution and Fick principle), factors affecting, regulation.	**4**	**Theory:** **DSE1A:** Properties of nerve fibers: all or none law, rheobase and chronaxie, refractory period. indefatiguability	**3**
Sept	**Theory:** **CC1A:** Colloids- Definition, classification and physiological importance	**3**	**Theory** **CC1C:** Structure of arteries, arterioles, capillaries. venules and veins. Pulse - arterial and venous.	**3**	.**Theory:** **DSE1A:** Synapses: structure, different types, mechanism of synaptic transmission.	**4**
Oct	**Theory:** **CC1A:** Enzymes- definition and classification	**2**	**Theory** **CC1C:** Blood pressure and its regulation and factors controlling. Baro- and chemoreceptors. Vasomotor reflexes. Methods of measurement of blood pressure.	**4**	**Theory:** **DSE1A:** Motor unit. Myoneural junction: structure,	**3**
Nov	**Theory:** **CC1A:** Factors affecting enzyme actions, concept of co-enzymes and isoenzymes	**3**	**Theory** **CC1C:** Peculiarities of regional circulations coronary, pulmonary, renal, hepatic and cerebral.	**4**	**Theory:** **DSE1A:** Mechanism of impulse t ransmission. Degeneration and regeneration in nerve fibres	**3**
Dec	**Theory:** **CC1A:** Revision Examination	**2**	**Theory** **CC1A:** Revision Examination	**3**	**Theory:** **DSE1A** Revision Examination	**3**
	Sem-II (G/GE)		**Sem-IV (G/GE)**		**Sem-VI (G/GE)**	

Jan	**Theory:** **CC1B:** Structure in relation to functions of alimentary cana1 and digestive glands.	**3**	**Theory:** **CC1D:** Elementary structure of kidney and location Relationship between structure and function of kidney	**3**	**Theory:** **SEC4B:** Some common pollutants and their effects- carbon monoxide, lead, arsenic.	**4**
Feb	**Theory** **CC1B:** Composition, functions and regulation of secretion of digestive juices including bile	**3**	**Theory:** **CC1D:** Mechanism of formation of urine Normal and abnormal constitution of urine	**4**	**Theory:** **SEC4B:** Some common pollutants and their effects- carbon monoxide, lead, arsenic.	**4**
Mar	**Theory:** **CC1B:** Composition, functions and regulation of secretion of digestive juices including bile	**3**	**Theory:** **CC1D:** Physiology of urine storage and micturition	**4**	**Theory:** **SEC4B:** Some common pollutants and their effects- carbon monoxide, lead, arsenic.	**4**
Apr	**Theory:** **CC1B:** Digestion and absorption of carbohydrate, protein and lipid.	**4**	**Theory** Renal regulation of acid- base balance	**3**	**Theory:** **SEC4B:** Effect of noise on human body and preventive measure	**4**
May	**Theory:** **CC1B:** Movements of the stomach and small intestine	**3**	**Theory:** **CC1D:** Non excretory function of kidney	**3**	**Theory:** **SEC4B:** Effect of noise on human body and preventive measure	**4**
June	**Theory:** **CC1B:** Revision Examination	**4**	**Theory:** **CC1D:** Revision Examination	**4**	**Theory:** **SEC4B:** Revision Examination	**4**

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NUPUR PAUL

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	**Theory:** **CC1:** **Organ systems, tissues and cells** .	**3**	**Theory** **CC5:** Introduction Blood Formed elements of blood– origin, formation, functions and fate	**4**	**Theory** **DSE2A:** Genesis and concept of ergonomics Importance of ergonomics in occupational health and well-being.	**4**
Aug	**Theory:** **CC1:** **Functional morphology of cells** Microscopic structure and functions of eukaryotic endoplasmic reticuli, ribosome .	**3**	**Theory** **CC5:** Blood volume –normal values, regulation and determination by dye and radioisotope methods. Bone Marrow	**4**	**Theory** **DSE2A:** Classification of Physiological work load. Concept of work rest cycle. Physical work environment Thermal environment, its' effect, Heat stress indices Noise and vibration, its' effect on workers. Occupational deafness	**4**
Sept	**Theory:** **CC1:** Microscopic structure and functions of ribosome, golgi bodies, mitochondria	**3**	**Theory** **CC5:** White Blood Cells	**4**	**Theory** **DSE2A:** Illumination level and its' effect on visual performances, Ergonomic principles of control of Physical hazards.	**3**
Oct	**Theory:** **CC1:** **Cell cycle**	**3**	**Theory** **CC5:** Immune Mechanisms	**4**	**Theory** **.DSE2A:** Static anthropometry, Application of anthropometric data in design. User interface and control display compatibility.	**3**

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

Feb	**Theory** **CC3:** **Electrical phenomena and Ionic Fluxes** Chemical, thermal and electrical changes in skeletal muscle during contraction and relaxation. Electromyography.	**4**	**Theory** **CC9:** Movements of alimentary canal and their regulations	**3**	**Theory** **CC14:** counter-current mechanism Formation of urine – glomerular function and tubular functions. Counter - current multiplier and exchanger.	**4**
Mar	**Theory** **CC3:** . **Contractile Responses** Mechanism of skeletal muscle contraction and relaxation: Excitation-contraction coupling. Dihydropyridine receptors & Ryanodine receptors.	**4**	**Theory** **CC9:** Absorption of Water & Electrolytes	**3**	**Theory** **CC14:** Formation of hypertonic urine. Water Excretion Renal regulation of osmolarity and volume of blood fluids	**3**
Apr	**Theory** **CC3:** **Energy sources and Metabolism** Mechanical components of muscle. Isometric and isotonic contractions– muscle length, tension and velocity relationships.	**4**	**Theory** **CC9**: Absorption of Vitamins & Minerals	**3**	**Theory** **DSE4A:** Acidification of the Urine & Bicarbonate Excretion Renal regulation of acid-base balance, acidification of urine	**3**
May	**Theory** **CC3:** **Properties of Muscle in the intact Organism** 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.	**5**	**Theory** **CC9:** Absorption of Vitamins & Minerals	**3**	**Theory** **DSE4A:** Regulation of Na+ & Cl- Excretion	**2**
June	**Theory** **CC3:** **Revision** **Examination**	**3**	**Theory** **CC9:** **Revision** **Examination**	**3**	**Theory** **CC14:** **Revision** **Examination**	**3**

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

Nov	**Theory:** **CC1A:** Physiological importance of the following physical processes: Adsorption Absorption Practical: **CC1A:** Staining of adipose tissue by Sudan III or IV.	**4** **4**	**Theory** **CC1C:** Regulation of respiration - neural and chemical. Hypoxia. Practical: **CC1C:** Leishman's staining of human blood film and identification of different typrs of blood corpuscles.	**4** **4**	**Theory:** **DSE1A:** A brief idea about the muscle spindle. **Practical:** **DSE1A:** **Practice**	**3** **2**
Dec	**Theory:** **CC1A:** Revision Practical: **CC1A:** Practice Examination	**3** **2**	**Theory** **CC1A:** Revision Examination	**3**	**Theory:** **DSE1A** Revision Examination	**3**
	Sem-II (G/GE)		**Sem-IV (G/GE)**		**Sem-VI (G/GE)**	
Jan	**Theory:** **CC1B:** Depot fat. Beta oxidation of saturated fatty acid **Practical:** **CC1B:** **Quantitative Experiments**: Quantitative estimation of glucose by Benedict's method.	**3** **4**	**Theory:** **CC1D:** **Skin and regulation of body temperature** Structure and functions of skin **Practical:** **CC1D:** Identification of normal constitution of urine-Chloride	**3** **4**	**Theory:** **SEC4B:** Environment - its physiological aspects.	**4**
Feb	**Theory** C**C1B:** Ketone bodies formation and significance. **Practical:** **CC1B:** Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done.	**3** **4**	**Theory:** **CC1D:** Insensible and sensible perspiration **Practical:** **CC1D:** Identification of normal constitution of urine-Sulphate	**4** **4**	**Theory:** **SEC4B:** Effect of extreme temperature on humans.	**4**
Mar	**Theory:** **CC1B:** Deamination, Transamination. Amino acid pool **Practical:** **CC1B:** Quantitative estimation of glucose by Benedict's method	**3** **4**	**Theory:** **CC1D:** Regulation of body temperature-physical and physiological process involved in it. **Practical:** **CC1D:** Identification of normal constitution of urine-Phosphate	**4** **4**	**Theory:** **SEC4B:** Hypobaric environment- effects on physiological system, acclimatization	**4**
Apr	**Theory:** **CC1B:** fate andfunctions of amino acids in the body. **Practical:** **CC1B:** Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done.	**3** **4**	**Theory** **CC1D:** **Revision** Structure and functions of skin **Practical:** **CC1D:** Identification of normal constitution of urine-Creatinine	**3** **4**	**Theory:** **SEC4B:** Hyperbaric conditions and Caisson disease.	**4**

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

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(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:** **CC1:** Introduction Body fluid components Organ systems, tissues and cells **Practical:** **CC1:** **Study and identification of stained section of different mammalian tissues and organs:** Lung, Trachea, Spinal cord, Cerebral cortex, Cerebellum,	**6** **4**	**Theory** **CC6:** **Cutaneous, Deep and Visceral Sensation** Introduction Ascending and descending tracts: origin, courses, termination and functions. Lower and upper motor neurones. Functions of the spinal cord with special reference to functional changes following hemisection and complete section of spinal cord. Brown-Sequard syndrome, Spinal animal. **Practical** **CC5:** Preparation and staining of blood film with Leishman's stain. Identification of the blood corpuscles.	**8** **6**	**Theory** **CC12:** **The Thyroid Gland** Introduction Anatomic Considerations Formation & Secretion of Thyroid Hormones Transport of Thyroid Hormones Effects of Thyroid Hormones Regulation of Thyroid Secretion Clinical Correlates **Practical:** **CC11:** Principles of fixation and staining, Staining and identification of fixed endocrine glands and nervous tissue. .	**8** **6**
Aug	**Theory:** **CC1:** **Transports accross cell membrane:** Ionpores,ion pumps, ion channels ionophores. Passive transport. Facilitated diffusion, uniport, symport, antiport. Active transport**.** **Intercellular communication :** Basic idea of tight junctions, gap junctions and cell adhesion molecules **Practical:** **CC1:** **Study and identification of stained section of different mammalian tissues and organs:** Parotid gland, Sub maxillary gland, Sublingual gland, Tongue, Oesophagus, Stomach, Duodenum, Jejunum, Ileum, Large intestine, Liver	**8** **6**	**Theory** **CC7:** Pain production, perception and regulation. Referred pain. Pathways Touch Proprioception Temperature Pain Other Sensations **Control of Posture and Movement :** Introduction General Principles Corticospinal & Corticobulbar System Anatomy & Function Posture and its regulation Decerebrate rigidity, Decorticate rigidity, Postural reflexes and regulation of Posture **Practical** **CC5:** Differential count of WBC. Total count of RBC and WBC. Bleeding time and clotting time Hemoglobin estimation	**8** **8**	**Theory** **CC12:** **Endocrine Functions of the Pancreas & the Regulation of Carbohydrate Metabolism:** Introduction Islet Cell Structure Structure, Biosynthesis, & Secretion of Insulin Effects of Insulin Mechanism of action Insulin Excess Regulation of Insulin Secretion Glucagon Other Islet Cell Hormones Hypoglycemia & Diabetes Mellitus in Humans **Practical:** **CC11:** Practice Staining and Identification of Histological sections provided	**6** **6**

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

Dec	**Theory:** **CC1:** Revision **Practical** Practice (if required) **Examination**	**4** **4**	**Theory** **CC7:** Revision and Question Answer discussion **Practical** Practice (if required) **Examination**	**4** **4**	**Theory** **CC12:** Revision **Practical** Practice (if required) **Examination**	**4** **4**
Month	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
Jan	**Theory** **CC3:** **Excitable Tissues: Nerve** **Introduction** **Nerve cells** Structure, classification and functions of neurons, Cytoskeletal elements and axoplasmic flow. **Excitation and Conduction** **Practical:** **CC3:** Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO3) and muscle fiber (H and E)	**8** **4**	**Theory** **CC9:** **Regulation of Gastrointestinal Function** Introduction Digestive glands – histological structures of salivary glands, pancreas and liver. **Practical:** **CC10:** Measurement of peak expiratory flow rate Measurement of oxygen saturation by pulse oxymeter before and after exercise	**6** **4**	**Theory** **CC13:** Introduction Primary and accessory sex organs and secondary sex characters, Physiology of puberty. Sex Differentiation & Development a. Chromosomal Sex Embryology of the Human Reproductive System Aberrant Sexual Differentiation Puberty Precocious & Delayed Puberty Menopause Pituitary Gonadotropins & Prolactin **Practical:** **CC13:** Study of estrous cycle	**8** **6**
Feb	**Theory** **CC3:** . **Measurement of electrical events** Propagation of nerve impulse in different types of nerve fibers. **Ionic basis of excitation and conduction** The resting membrane potential, action potential, electrotonic potentials, current of injury and compound action potential. **Practical:** **CC3:** Practice Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO3) and muscle fiber (H and E)	**6** **4**	**Theory** **CC9:** General Considerations 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. **Practical:** **CC10:** Measurement of forced expiratory volume (FEV) in first second	**8** **2**	**Theory** **CC13:** **The male reproductive System** Structure Histology of testis Gametogenesis & Ejaculation Endocrine Function of the Testes Control of Testicular Function Abnormalities of Testicular Function **Practical:** **CC13:** Staining and identification of kidney and ureter	**10** **4**

Mar	**Theory** **CC3:** **Properties of mixed nerves** Properties of nerve fibers: excitability, conductivity, all or none law, accommodation, adaptation, summation, refractory period, Indefatigability, Chronaxie & 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 **Practical:** **CC4:** Qualitative tests for the identification of physiologically important substances: Urea, Glycerol, Bile salts	**6** **4**	**Theory** **CC9:** Gastrointestinal hormones Mouth & Esophagus Stomach Exocrine Portion of the Pancreas Liver & Biliary System **Practical:** **CC10:** Practice	**8** **4**	**Theory** **CC13:** 6. Pregnancy Fertilization, Preliminary ideas of implantation. Structure and functions of placenta. Maintenance of pregnancy and the bodily changes during pregnancy. Pregnancy tests. Parturition. **Practical:** **CC13:** Pregnancy test from human urine by kit method	**8** **2**
Apr	**Theory** **CC3:** **Nerve fibre types and function** **Neurotropins** Nerve growth factors and Neurotropins **Glia** Structure, classification and functions of neuroglia cells **Practical:** **CC4:** Prctice Qualitative tests for the identification of Unknown Sample	**4** **4**	**Theory** **CC9:** Small Intestine Colon **Practical:** **CC10:** Practice (if required)	**4** **4**	**Theory** **CC13:** Lactation Mammogenesis, Galactopoesis: Hormonalcontrol **Practical:** **CC13:** Practice	**4** **4**
May	**Theory** **CC3:** Revision, Question Answer discussion and Assessment **Practical:** **CC4:** Class Test on Identification of given Unknown Sample	**5** **2**	**Theory** **CC9:** Revision, Question Answer discussion and Assessment **Practical:** Class Test .	**5** **2**	**Theory** **CC13:** Revision, Question Answer discussion and Assessment **Practical:** **CC13:** Class Test	**5** **2**
June	**Theory** **CC3:** **Revision** **Practical** Practice (if required) **Examination**	**2** **2**	**Theory** **CC9:** **Revision** **Practical** Practice (if required) **Examination**	**2** **2**	**Theory** **CC13:** **Revision** **Practical** Practice (if required) **Examination**	**2** **2**

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Physiology (Generic/ General)

(July 2020 – June 2021)

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

Month	Sem-II (GE/Gen)	No of Lecture	Sem-VI (GE/Gen)	No of Lecture
Jan	**Theory** **CC1B** Metabolism: Pathophysiological significance of the following blood constituents: glucose, urea, creatinine	**6**	**Theory** **DSE1B** Sensory Physiology: Classification of general and special senses and their receptors. Receptors as biological transducer. 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	**Theory** **CC1B**		**Theory** **DSE1B**	

	Metabolism: 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. Audition: Structure of ear, auditory pathway, mechanism of hearing.	**8**
Mar	**Theory** **CC1B** Metabolism: Pathophysiological significance of the following blood constituents: alkaline and acid phosphatases and ketone bodies	**6**	**Theory** **DSE1B** 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	**Theory** **CC1B** Revision and Question Answer discussion	**6**	**Theory** **DSE1B** Revision and Question Answer discussion	**6**
May	**Theory** **CC1B** Assessment	**2**	**Theory** **DSE1B** Assessment	**2**
Jun	**Examination**	**2**	**Examination**	**2**

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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
Ju	**Theory:** **CC1:** **Functional morphology of cells** Plasma membrane and subcellular membranes**.** Microscopic structure and functions of eukaryotic endoplasmic reticuli, ribosome, golgi bodies.	**4**	**Theory** **CC7:** **Reflexes: a.** Introduction **b.** Monosynaptic Reflexes: The Stretch Reflex **c.** Polysynaptic Reflexes: The Withdrawal Reflex **d.** General Properties of Reflexes **Arousal Mechanism, Sleep and the Electrical Activity of the Brain** **a.** Introduction **b.** The Reticular Formation & the Reticular Activating System Reticular formation: organization, connection and functions of ascending and descending reticular formation. Physiological basis of sleep and wakefulness	**4** **4**	**Theory** **CC12:** **The Adrenal Medulla & Adrenal Cortex** a. Introduction b. Adrenal Morphology c. Adrenal Medulla I. Structure & Function of Medullary Hormones II. Regulation of Adrenal Medullary Secretion d. Adrenal Cortex I. Structure & Biosynthesis of Adrenocortical Hormones II. Effects of Adrenal Androgens & Estrogens III. Physiologic Effects of Glucocorticoids IV. Pharmacologic & Pathologic Effects of Glucocorticoids V. Regulation of Glucocorticoid Secretion VI. Effects of Mineralocorticoids **DSE1A: BIOLOGICAL STATISTICS** Scope of statistics – Principles of statistical analysis of biological data. Basic concepts – variable, parameter, statistics. Sampling. Presentation of data-frequency distribution, frequency polygon, histogram, bar diagram and pie diagram.	**3** **5** **4**

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

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

Feb	**Theory** **CC4:** Cyclic structures- Pyranose and furanose forms, structure of disaccharides and polysaccharides.	**4**	**Theory** **CC8:** Glycogenesis and Glycogenolysis. Protein metabolism Amino acids, Amino acid pool. Deamination, transamination, amination and decarboxylation. Synthesis of Urea and Nitric oxide. Basic idea of glucogenic and ketogenic amino acids.	**4** **4** **4** **2**	**Theory** **CC13:** Menstrual cycle and its regulation b. Ovarian Hormones c. Control of Ovarian Function d. Abnormalities of Ovarian Function	**10**
Mar	**Theory** **CC4:** c. Properties of Carbohydrates Stereoisomerism, optical isomerism, optical activity, epimerism, anomerism, mutarotation and its mechanism.	**4**	**Theory** **CC8:** Metabolism of glycine, sulfur-containing amino acids, tryptophan and phenylalanine Fat and cholesterol metabolism ß-oxidation and biosynthesis of saturated and monounsaturated fatty acids. Carnitine shuttle.	**6** **7**	**Theory** **CC13:** Abnormalities in menstrual cycle. Onset of menopause and post-menopausal changes, Postmenopausal syndromes**.**	**2** **2**
Apr	**Theory** **CC4:** Chemical reactions of monosaccharides (Glucose & Fructose) – Reactions with concentrated mineral acids, alkali, phenyl hydrazine and their biochemical importance	**4**	**Theory** **CC8:** Metabolism of Triglycerides. Biosynthesis of Lecithin, Cephalin and Cholesterol. Metabolism of Adipose Tissue. Role of lipoproteins in transport and storage of lipids. 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** **4** **4**	**Theory** **DSE3B:** Genes - definition. DNA-structure, DNA replication, Transcription of RNA in prokaryotes, Genetic code – properties and wobble hypothesis,	**5** **2** **2**
May	**Theory** **CC4:** d. Function of Carbohydrates Derivatives of monosaccharides --Amino sugars, deoxysugars, sugar alcohols, sugar acids, sugar esters, their biochemical and physiological importance.	**4**	**Theory** **CC8:** Integration of carbohydrate, fat and protein metabolism Biological oxidation– Redox Potential. Mitochondrial Electron Transport Chain. Oxidative Phosphorylation–Inhibitors and uncouplers**.** Practice .	**2** **6** **4**	**Theory** **DSE3B:** translation in prokaryotes, regulation of gene expression – operon concept: lac operon, gene mutation DNA repairing processes. Basic idea of Recombinant DNA technology and its applications, Polymerase chain reaction (PCR) - basic concepts.	**8** **8**
June	**Theory** **CC4:** **Revision** **Class test** **Examination**	**2** **2**	**Theory** **CC8:** **Revision** **Practice** **Examination**	**4** **4**	**Theory** **CC13:** **Revision** **Class test** **Examination**	**4** **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	**Theory:** **CC 1A:** **Units of Human System** Structure and functions of plasma membrane, nucleus and different cell organelles.	**4**	**Theory** **CC 1C:** Blood and Body Fluids Blood: composition and functions. Plasma proteins: origin and functions, Plasmapheresis. Bone marrow. Formed elements of blood-their morphology and functions. **Practical:** **Haematological experiments II:** DC of WBC, estimation of haemoglobin	**4** **2**	**Theory** **SEC III: IMMUNOLOGY** Elementary knowledge of innate and acquired immunity**.** **Practical:** **Field Study** Population study of physiological parameters such as height, weight, heart-rate, blood pressure	**4** **2**
Aug	**Theory:** **CC 1A:** Endoplasmic reticulum, Golgi bodies, Mitochondria, Lysosome and Peroxisome.	**4**	**Theory** **CC 1C:** Erythropoiesis and leucopoiesis. Haemoglobin: different types of compounds and derivatives. Functions and estimation of haemoglobin. Abnormal haemoglobins-thalassaemia and sickle-cell anaemia. **Practical** **CC 1C:** Blood group determination, Bleeding time and coagulation time.	**4** **2**	**Theory** **SEC III:** Humoral and cell mediated immunity **Practical:** **Field Study:** Population study of physiological parameters such as height, weight, heart-rate, blood pressure	**4** **2**
Sept	**Theory:** **CC 1A:** Structure, function and classification of Epithelial, Connective, Muscular and Nervous tissues.	**4**	**Theory** **CC 1C:** Blood volume and its determination (dye method and Radioisotope method) and regulation. Coagulation of blood: mechanism, factors affecting, procoagulants, anticoagulants, and disorders of coagulation.	**4**	**Theory** **SEC III:** Vaccination-principles and importance of immunization. A brief idea of antibiotics **Practical:** **Field Study** Population study of physiological parameters such as height, weight, heart-rate, blood pressure respiratory rate, PFI, TC of RBC, estimation of haemoglobin, DC of WBC	**4** **2**
oct	**Theory:** **CC 1A:** **Biochemistry of Biomolecules.** a. Carbohydrates: Definition and classification. b. Monosaccharide–Classification, structure. Chemical reactions of monosaccharide (Glucose & Fructose)- Reactions with concentrated mineral acids, alkali, Phenyl hydrazine and their biochemical importance. c. Disaccharides–Maltose, Lactose and Sucrose: Structure, occurrence and physiological importance	**4**	**Theory** **CC 1C:** Lymph and tissue fluids: composition, formation, and functions**.** **Practical** **CC 1C:** **Practice**	**4** **2**	**Theory** **.SEC III:** Basic principle of immunological detection of Pregnancy.	**2**

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

Feb	**Theory** **CC 1B:** Depot fat. Beta oxidation of saturated fatty acid Ketone bodies, formation and significance**.**	**4**	**Theory** **CC 1D:** Pituitary: Histological structure, hormones, functions. Hypo and Hyperactive states of pituitary gland. . **Practical:** **CC 1D:** **Practice**	**4** **2**	**Theory** **DSE 1B** Ovary : histology, oogenesis, ovarian hormones and their functions. **Practical:** **Human Experiments II** 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,	**4** **2**
Mar	**Theory** **CC 1B:** Deamination, Transamination.Aminoacidpool-fateand functions of amino acids in the body. Formation of urea and its importance.	**4**	**Theory** **CC 1D:** Thyroid: Histological structure. Functions of thyroid hormones & thyrocalcitonin. Hypo and hyper-active states of thyroid	**4**	**Theory** **DSE 1B:** Spermatogenesis & Oogenesis–processes and Factors controlling. **Practical:** **Human Experiments II** Measurement of some common anthropometric parameters: Mid -arm circumference, waist circumference, hip circumference, neck circumference, head circumference, chest circumference.	**4** 2
Apr	**Theory** **CC 1B:** Brief idea of HMP shunt and its significance Lipoproteins -types and functions	**4**	**Theory** **CC 1D:** **Parathyroid:** Histological structure, functions of parathyroid hormone. Tetany. **Adrenal Cortex**: Histological structure and functions of different hormones. Hypo and hyper-active states of adrenal cortex. Adrenal Medulla: Histological structure and functions of medullary hormones. The relation of adrenal medulla with the sympathetic Nervous system	**6**	**Theory** **DSE 1B:** Oestrus and menstrual cycles and their hormonal control. Fertilization, implantation and structure and functions of placenta.	**4**
May	**Theory** **CC 1B:** Purine and pyrimidine bases, nucleosides, nucleotides and polynucleotides	**4**	**Theory** **CC 1D:** 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.	**6**	**Theory** **DSE 1B:** Maintenance of pregnancy –role of hormones. Development of mammary gland and lactation-role of Hormones	**4**

June	**Theory** **CC 1B:** **Revision** **Practical** **Practice** **Examination**	**2** **2**	**Theory** **CC 1D:** **Revision** **Practical** **Practice** **Examination**	**4** **2**	**Theory** **DSE 1B:** **Revision** **Practical** **Practice** **Examination**	**4** **2**

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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 বর্গীকরণ ও ধ্বনির পরিবর্তন; শব্দার্থ তত্ত্ব; সাধু-চলিত; বাংলা শব্দ ভাণ্ডার; বাক্যতত্ত্ব; বাংলা উপভাষা। - S.D Class-40

CC-7 উনিশ শতকের কাব্য

বীরাঙ্গনা 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- ভাষতাত্ত্বিক 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, মহুয়ার 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 1H	Sem 1G	Sem 2H	Sem 2G	Sem 3H	Sem 3G	Sem 4H	Sem 4G	Sem 5H	Sem 5G	Sem 6H	Sem 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	

DEPARTMENT OF COMMERCE

TEACHING PLAN OF B. Com. (General)

(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
Jul	CC-1:FINANCIAL ACCOUNTING-I (1.2 CG)	Unit1	**BK**	**10**	CC-5: COST ACCOUNTING- II (3.1 CG)	Unit1	**KD**	**10**	CC-9: TAXATION-I (5.1 CG)	Unit1	**MLT**	**10**
		Unit-2	**KD**	**10**		Unit-2	**MLT**	**10**	Unit 1	Unit-2	**KD**	**10**
		Unit-3	**MLT**	**10**		Unit-3	**BK**	**10**		Unit-3	**SPD**	**10**
					CC-6: FINANCIAL ACCOUNTING- II (3.2 CG)	Unit1	**MLT**	**10**	CC-10:AUDITING (5.2 CG)	Unit1	**SPD**	**10**
	CC-2:BUSINESS MANAGEMENT (1.3 CG)	Unit1	**SPD**	**15**		Unit-2	**KD**	**10**				
									DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)	Unit1	**MLT**	**10**
					SEC-1:E-COMMERCE (3.4 CG)	Unit1	**SPD**	**10**		Unit-2	**KD**	**10**
						Unit-2	**BH**	**12**	OR			
									DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG)	Unit1	**BH**	**15**
									DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)	Unit1	**BK**	**15**
									OR			
									DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG)	Unit1	**SPD**	**10**

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

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

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

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

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

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

									TAXATION-II (6.3.2 CG)	Unit-2	**KD**	**10**
									DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG)	Unit-3 Unit-2	**SPD** **MLT**	**15** **10**
									OR DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG)	Unit-3 Unit-2	**MLT** **KD**	**10** **13**
												10
Mar	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG)	Unit-3	**BK**	**9**	CC-7:FINANCIAL ACCOUNTING-III (4.1 CG)	Unit-3 Unit-4	**KD** **MLT**	**10** **10**	SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)	Unit-3	**BH**	**10**
					CC-8:CORPORATE LAWS (4.2 CG)	Unit-3	**SPD**	**10**	GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG)	Unit-3 Unit-4	**BK** **BH**	**12** **10**
	CC-3: BUSINESS LAW (2.3 CG)	Unit-3	**SPD**	**10**	SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL) (4.3 CG)	Unit-3	**BH**	**10**	DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG)	Unit-3 Unit-4	**KD** **BK**	**10** **10**
	CC-4: COST ACCOUNTING-I (2.4 CG)	Unit-3 Unit-4	**KD** **MLT**	**10** **12**	SEC-3: ENTREPRENEURSHIP (4.4 CG)	Unit-3	**BK**	**10**	OR DSE-3: TAXATION-II (6.3.2 CG)	Unit-3 Unit-4	**MLT** **KD**	**10** **10**
									DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG)	Unit-3 Unit-4	**SPD** **MLT**	**15** **10**

									OR DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG)	Unit-3 Unit-4	**MLT** **KD**	**10** **13** **10**
Apr	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG) CC-3: BUSINESS LAW (2.3 CG) CC-4: COST ACCOUNTING-I (2.4 CG)	Unit-4 Unit-4 Unit-5 Unit-4	**BK** **SPD** **KD** **MLT**	**10** **10** **10** **10**	CC-7:FINANCIAL ACCOUNTING-III (4.1 CG) CC-8:CORPORATE LAWS (4.2 CG) SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL) (4.3 CG) SEC-3: ENTREPRENEURSHIP (4.4 CG)	Unit-5 Unit-4 Unit-4 Unit-4 Unit-4	**KD** **MLT** **SPD** **BH** **BK**	**10** **10** **13** **10** **10**	SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG) GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG) DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG) OR DSE-3: TAXATION-II (6.3.2 CG) DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG) OR DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG)	Unit-4 Unit-5 Unit-4 Unit-5 Unit-4 Unit-5 Unit-4 Unit-4 Unit-5 Unit-5 Unit-4		**10** **12** **10** **10** **10** **10** **10** **15** **10** **10** **13**

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

June	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG)	**Revision**	**BK**	**5**	CC-7:FINANCIAL ACCOUNTING-III (4.1 CG)	**Revision**	**KD**	**7**	SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)	**Revision**	**BH**	**7**
		Revision	**MLT**	**7**		**Revision**	**MLT**	**7**				
	CC-3: BUSINESS LAW (2.3 CG) Unit 5: The Negotiable Instruments Act 1881	**Revision**	**SPD**	**7**	CC-8:CORPORATE LAWS (4.2 CG)	**Revision**	**SPD**	**10**	GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG)	**Revision**	**BK**	**8**
										Revision	**BH**	**7**
					SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL)	**Revision**	**BH**	**8**				
		Revision	**KD**	**5**	(4.3 CG)				DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG)	**Revision**	**KD**	**7**
		Revision	**MLT**	**5**						**Revision**	**BK**	**6**
	CC-4: COST ACCOUNTING-I (2.4 CG)				SEC-3: ENTREPRENEURSHIP (4.4 CG)	**Revision**	**BK**	**7**				
									OR DSE-3: TAXATION-II (6.3.2 CG)	**Revision**	**MLT**	**7**
										Revision	**KD**	**8**
									DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG)	**Revision**	**SPD**	**7**
										Revision	**MLT**	**6**
									OR DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG)			**8**
										Revision	**MLT**	**7**
										Revision	**KD**	

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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
Jul	CC1:FINANCIAL ACCOUNTING-I (1.2 CH)	Unit1	**BK**	**6**	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH)	Unit1	**BH**	**10**	CC-11: TAXATION-I (5.1 CH)	Unit1 **Unit2**	**KD** **MLT**	**10** **10**
		Unit-2	**MLT**	**6**								
		Unit-3	**KD**	**6**	CC-6: COST ACCOUNTING-II (3.2 CH)	**Unit-1**	**MLT**	**5**	CC-12: AUDITING (5.2 CH)	**Unit-1**	**SPD**	**10**
						Unit2	**KD**	**10**				
	CC-2:BUSINESS MANAGEMENT(1.3 CH)	**Unit-1**	**SPD**	**10**					DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)	**Unit-1**	**MLT**	**10**
		Unit2	**BH**	**7**						**Unit-2**	**KD**	**10**
					CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)	**Unit-1**	**KD**	**10**				
						Unit-2	**MLT**	**10**	OR			
	GE-1:BUSINESS MATHEMATICS(1.4 CH)	**Unit-1**	**BH**	**10**					DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH)	**Unit-1**	**BK**	**13**
		Unit-2	**BK**	**10**								
					SEC-1 E-COMMERCE (3.4 CH)	**Unit-1**	**SPD**	**6**				
									DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH)	**Unit-1**	**BK**	**15**
					GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	**Unit-1**	**SPD**	**12**				
									OR			
									DSE-2: ADVERTISING (5.4.2 CH) Unit 1: Introduction	**Unit1**	**BH**	**10**

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

					GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	**Unit-3**	**SPD**	**10**	DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH) OR DSE-2: ADVERTISING (5.4.2 CH)	**Unit-3** **Unit-4** **Unit-3**	**BK** **SPD** **BH**	**13** **7** **10**
Oct	CC1:FINANCIAL ACCOUNTING-I	Unit-5 Unit-4	**MLT** **BK**	**10** **10**	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH)	Unit-4	**BH**	**10**	CC-11: TAXATION-I (5.1 CH)	Unit-4 **Unit-3**	**MLT** **KD**	**10** **10**
	CC-2:BUSINESS MANAGEMENT(1.3 CH)	**Unit-3** **Unit-4**	**SPD** **BH**	**10** **10**	CC-6: COST ACCOUNTING-II (3.2 CH)	**Unit-5** **Unit-4**	**KD** **MLT**	**10** **10**	CC-12: AUDITING (5.2 CH) DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)	**Unit-4** **Unit-4** **Unit-5**	**SPD** **MLT** **KD**	**13** **10**
	GE-1:BUSINESS MATHEMATICS(1.4 CH)	**Unit-4** **Unit-5A**	**BH** **BK**	**1 0** **10**	CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)	**Unit-4** **Unit-5**	**MLT** **KD**	**15** **10**	OR DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH)	**Unit-4**	**BK**	**10** **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 OR DSE-2: ADVERTISING (5.4.2 CH)	**Unit-4** **Unit-5**	**SPD** **BH**	**6** **7** **8**
Nov	CC1:FINANCIAL ACCOUNTING-I	**Revisio n**	**KD**	**3**	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH)	**Unit-5**	**BH**	**10**	CC-11: TAXATION-I (5.1 CH)	**Unit-4** **Unit-5**	**MLT** **KD**	**10** **10**

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

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

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

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

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

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

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

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

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

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

Amarnath Chattopadhyay

Signature of the Teacher
Department of Microbiology
Suri Vidyasagar College

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 18thcenturies

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 uprisisng, 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 Reforns; 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] 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 toMuseums/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 PlanTruman 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-Meji 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 Yenan 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 Cremean 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 wille quip 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 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
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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 UNDERSTANDING THE STUCTURE AND CONSTRUCTION OF NEWS ORGANIZING A NEW STORY UNIT- 3	8	CC-6 HISTORY OF TELEVISION, INVENTION TO TELECAST UNIT-1	6	CC-11 MEDIA AND INTERNATIONAL COMMUNICATION A BRIEF OVERVIEW UNIT-1	11
AUGUST	CC-1 NEWS WORTHINESS, PRINCIPLE OF NEW SELECTION AND STRUCTURE OF NEWS WRITING UNIT-3	7	CC-6 TELEVISION IN INDIA NATIONWIDE NETWORK FORMATION, BCI, COMMUNITY TELEVISION, SIT,PSB UNIT-1	14	CC-11 PROPAGANDA IN THE INTER WAR YEARS, NAZI PROPAGANDA,RADIO AND INTERNATIONAL COMMUNICATION UNIT-1 COLD WAR UNIT-2	11
SEPTEMBER	CC-1 SOURCE OF NEWS ,USE OF ARCHIVES,AND INTERNET UNIT-3	4	CC-6 DIFFERENT TYPES OF TV CHANNELS, DD VS SATELLITE CHANNEL UNIT-2 BASIC CAMERA SHOTS UNIT-3	9	CC-11 VIETNAM WAR,USSR,RADIO FREE EUROPE, RADIO LIBERTY,VOICE OF AMERICA,COMMUNICATION DEBATES UNIT-2	15
OCTOBER	CC-1 DIFFERENT MEDIUM A COMPARISION,PRINCIPLE OF SOFT WRITING UNIT-4	4	CC-6 CAMERA ANGLE, MOVEMENT,VISUAL GRAMMAR,FOCUSING VISUAL PERSPECTIVE UNIT-3	8	CC-11 NWICO,UNESCO,NAM,MCBRIDE COMMISSION,NORTH-SOUTH,POOR-RICH UNIT-2	8
NOVEMBER	CC-1 DIFFERENCE BETWEEN DIFFERENT MEDIUM,CITIZEN JOURNALISM UNIT-4 CC-2 HYPODERMIC NEEDLE THEORY,AGENDA SETTING,PROPAGANDA,SPIRAL OF SILENCE UNIT-6	14	CC-6 TELEVISION NEWSROOM,WRITING TECHNIQUES,WRITING TECHNIQUES PRACTICAL,ENG,EFP,NEWS ROOM PERSONAL DUTIES AND RESPONSIBITIES UNIT-4	15	CC-11 RISE OF AL JAZEERA, THE GULF WARS,CNN,EMBEDDED JOURNALISM,9/11 INCIDENT UNIT-3 CULTURER IMPERALISM,MEDIA HEGEMONY UNIT-4	11

Pratick Kabiraj

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

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

Prabir Kabiraj

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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
Prof. Shyama-prasad Mukherjee	Hons.	CC-1 Classical Sanskrit Literature(Poetry): Section-A (I)Raghuvaṁśa: Canto-XIV (Verses: 31-68)	22	CC-6 Poetics and Literary Criticism Section-B (I) Sāhityadarpaṇa – Chapter-X (Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti, Dṛṣṭānta, Nidarśanā&Arthāntaranyāsa)	20	CC-12 Sanskrit Grammar: Section- B Samāsa - (Selected Sūtras upto Dvandva Compound)	35
	Gen.					DSE-1A Philosophy, Religion and Culture in Sanskrit Tradition A. The History of Vedic Literature (30 classes) B. The Social, Religious and Cultural Aspects as reflected in the Purāṇas	25
Dr. Dinesh Kr. Das	Hons.	CC-1 Classical Sanskrit Literature(Poetry): Section-B Kirātārjunīya - Canto I (1-25 Verses)	34	CC-6 Poetics and Literary Criticism: Section-A (I) Vāmana'skāvyālaṁkārasūtravṛtti – First Adhikaraṇa-- (Chapters – I, II & III) (II) Metrics – A General Concept of Sanskrit Metres and the definitions of the	35	CC -11 Vedic Literature: Section-A Ṛgvedasaṁhitā –(Agnisūkta-(2/6) , Indrasūkta- (2/12), Akṣasūkta-(10/34) , Devīsūkta-(10/125) Section-B (10 classes) Declension of a-stems,Vedic Subjunctive, Vedic Infinitive,The Vedic	36

				following Meters --- (IndravajrāUpendravajrā, Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī&Mandākrāntā)		Accent &Pada-pāṭha	
	Gen.					DSE-2A	
Prof. Prodip Kr. Sarkar	**Hons.**	CC-2 Critical Survey of Sanskrit Literature: VaidikaSāhitya Purāṇa	**10**	CC -5 Classical Sanskrit Literature (Drāmā): (I)Abhijñānaśakuntala (I-V)	**40**	DSE-2 Elements of Linguistics – (I)Primitive Indo-European, Division of Indo-European, Discipli 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	**40**
	Gen.			CC-3 Discipline - 1(Sanskrit) Sanskrit Drama: Section-A (I)Abhijñānaśakuntala (I-V)	**35**		
Prof. Biswajit Raj	**Hons.**	CC-2 Critical Survey of Sanskrit Literature Section-B The History of Sanskrit Grammar. The History of Indian Philosophy	**26**	SEC-1 Basic Sanskrit: Section-A Brāhmī Script Writing Section-A Brāhmī Script Writing Section-E Brahmadatta-karkaṭa-	**35**	DSE-1 Dramaturgy -- Sāhityadarpaṇa - Chapter-VI (Rūpaka,Nāndī,Vṛttis(withoutAṃgas),Prastāvanā, ArthaprakDisciplirti,	**56**

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

				Bhaṭṭanārāyaṇa)		(161-170) Section-B. Arthaśāstra- (Dūtapraṇidhi)	
Prof. Chandrani Agarwala	**Gen.**	CC -1 Sanskrit Poetry Section-A (25 classes) Kirātārjunīya - Canto I (1-25 Verses Section-B (35 classes)) (II) The History of Sanskrit Literature. (Aśvaghoṣa,Kālidāsa,Bhāravi, Māgha,Bhaṭṭi,Śrīh arṣa)	**45**	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)	**45+40**	DSE-II Literary Criticism I)Metrics – A General Concept of Sanskrit Metres and the definitions of the following Meters -- Indravajrā Upendravajrā,Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī & Mandākrāntā (I) Sāhityadarpaṇa – Chapter-X (30 classes) (Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti,Dṛṣṭānta, Nidarśanā & Arthāntaranyāsa)	**33+32**

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
Prof. Shyama-prasad Mukherjee	Hons.	CC-4 Self Management in the Gītā: Section-A Śrīmadbhagavadgītā (Adhyāya-4 th)(Whole)	35	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,NityānadaSmṛtitīrtha, Kshitish Chandra Chatterji, Roma Chaudhuri, PañcānanaTarkaratna&RamaranjanMukherji)	54	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	40
	Gen	CC-2 Discipline -1(Sanskrit) Sanskrit Prose: Section-A Daśakumāracarita-(Dvijopakṛti)--- As in Sanskrit Pāṭhamālā, B.U.	32	Basic Sanskrit – Part-I Section-D Brahmadattakarkaṭakathā-(Aparīkṣitakāraka)-Pañcatantra	14		
Dr. Dinesh Kr. Das	Hons.	CC -3 Classical Sanskrit Literature(Prose) Course Section-AŚukanāsopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. (evaṁsamatikrāmatsu------ bhrātaraucchedyāḥ)	17	CC-9 Modern Sanskrit Literature Core Course Section-A (II)Cipiṭakacarvaṇa-ŚrījivaNyāyatīrtha	30	CC -13 Indian Ontology and Epistemology Core Course (A)Tarkasaṁgraha – (saptapadārtha, karaṇa, pratyakṣa and sannikarṣa) (B)Vedāntasāra - (Excluding the last portion beginning with	65

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

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

		Literature (Fables) (Pañcatantra,Hitopadeśa,Vetālapañcaviṁśati, Siṁhāsanadvātriṁśikā, Puruṣaparīkṣā)		Section-C Comprehension		Rūpaka, Utprekṣā, Atiśayokti,Dṛṣṭānta, Nidarśanā & Arthāntaranyāsa) SEC-IV Vedic Literature Section-A Ṛgvedasaṁhitā –(Agnisūkta-(2/6) , Indrasūkta-(2/12), Akṣasūkta-(10/34) , Devīsūkta-(10/125) Section B Iśopaniṣad	**32+12**
Prof. Chandrani Agarwala	**Gen.**	CC-2 Discipline -1(Sanskrit) Sanskrit Prose Section-A (30 classes) Daśakumāracarita-(Dvijopakṛti)	**34**	SEC-II Indian Theatre Drāmaturgy -- Sāhityadarpaṇa - Chapter- VI (Rūpaka,Nāndī,Vṛttis(withoutAṅgas),Prastāvanā,Arthaprakṛti,Arthopakṣepaka,Patākāsthānakas,Kārya,Avasthā, Sandhi (without Aṅgas) & Nāṭikā	**45**	DSE-II Literary Criticism I)Metrics – A General Concept of Sanskrit Metres and the definitions of the following Meters -- Indravajrā Upendravajrā,Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī & Mandākrāntā GE-II Ethical Issues in Sanskrit Literature (I) Hitopadeśa –Mitralābha (up to verse no.50) (II)Pañcatantra Mitrabheda Katha (Gomāyudundubhikathā)	**30+62**

(Full Signature of the Examiner)

Biswajit Roy

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
Prof. Shyama-prasad Mukherjee	Hons.	CC-1 Classical Sanskrit Literature(Poetry): Section-A (I)Raghuvaṁśa: Canto-XIV (Verses: 31-68)	30	CC-6 Poetics and Literary Criticism Section-B (I) Sāhityadarpaṇa – Chapter-X (Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti, Dṛṣṭānta, Nidarśanā&Arthāntaranyāsa)	25	CC-12 Sanskrit Grammar: Section- B Samāsa - (Selected Sūtras upto Dvandva Compound)	40
	Gen.					DSE-1A Philosophy, Religion and Culture in Sanskrit Tradition A. The History of Vedic Literature B. The Social, Religious and Cultural Aspects as reflected in the Purāṇas	33
Dr. Dinesh Kr. Das	Hons.	CC-1 Classical Sanskrit Literature(Poetry): Section-B Kirātārjunīya - Canto I (1-25 Verses)	34	CC-6 Poetics and Literary Criticism: Section-A (I) Vāmana'skāvyālaṁkārasūtravṛtti – First Adhikaraṇa-- (Chapters – I, II & III) (II) Metrics – A	42	CC -11 Vedic Literature: Section-A Ṛgvedasaṁhitā –(Agnisūkta-(2/6) , Indrasūkta- (2/12), Akṣasūkta-(10/34) , Devīsūkta-(10/125) Section-B (10 classes)	44

				General Concept of Sanskrit Metres and the definitions of the following Meters --- (IndravajrāUpendravajrā, Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī&Mandākrāntā)		Declension of a-stems,Vedic Subjunctive, Vedic Infinitive,The Vedic Accent &Pada-pāṭha	
	Gen.						
Prof. Prodip Kr. Sarkar	**Hons.**	CC-2 Critical Survey of Sanskrit Literature: VaidikaSāhitya Purāṇa	**13**	CC -5 Classical Sanskrit Literature (Drāmā): (I)Abhijñānaśakuntala (I-V)	**55**	DSE-2 Elements of Linguistics – (I)Primitive Indo-European, Division of Indo-European, Discipli 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	**50**
	Gen.			CC-3 Discipline - 1(Sanskrit) Sanskrit Drama: Section-A (I)Abhijñānaśakuntala (I-V)	**42**		
Prof. Biswajit	**Hons.**	CC-2 Critical Survey of Sanskrit Literature Section-B The History of	**32**	CC-7 Indian Social Institution and Polity: Section-A Manusaṃhitā –	**45**	DSE-1 Dramaturgy -- Sāhityadarpaṇa - Chapter-VI	**56**

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

						Ghi,Ghu,Nadī,Upadhā and Samprasāraṇa.	
	Gen.	CC -1 Discipline -1(Sanskrit) Sanskrit Poetry: Section-A (I)Raghuvaṁśa: Canto-XIV (Verses: 31-68) (I)	**35**			GE-I : Indian Social Institution and Polity Section-A Manusaṃhitā – Chapter-VII State Politics- (1-15), Upāyacatuṣṭaya- (106-110) &Sāḍguṇya – (161-170) Section-B.(30 classes) Arthaśāstra- (Dūtapraṇidhi)	**56**
Prof. Chandrani Agarwala	**Gen.**	CC -1 Sanskrit Poetry Section-A (25 classes) Kirātārjunīya - Canto I (1-25 Verses Section-B (35 classes)) (II) The History of Sanskrit Literature. (Aśvaghoṣa,Kālidāsa,Bhāravi, Māgha,Bhaṭṭi,Śrīh arṣa)	**45**	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)	**45+40**	DSE-II Literary Criticism I)Metrics – A General Concept of Sanskrit Metres and the definitions of the following Meters -- Indravajrā Upendravajrā,Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī & Mandākrāntā (I) Sāhityadarpaṇa – Chapter-X (30 classes) (Śleṣa, Upamā, Rūpaka, Utprekṣā, Atiśayokti,Dṛṣṭānta, Nidarśanā & Arthāntaranyāsa)	**33+32**

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
Prof. Shyamaprasad Mukherjee	Hons.	CC-4 Self Management in the Gītā: Section-A Śrīmadbhagavadgītā (Adhyāya-4 th)(Whole)	35	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,NityānadaSmṛtitīrtha, Kshitish Chandra Chatterji, Roma Chaudhuri, PañcānanaTarkaratna&RamaranjanMukherji)	54	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	40
	Gen	CC-2 Discipline -1(Sanskrit) Sanskrit Prose: Section-A Daśakumāracarita-(Dvijopakṛti)--- As in Sanskrit Pāṭhamālā, B.U.	32	Basic Sanskrit – Part-I Section-D Brahmadattakarkaṭakathā-(Aparīkṣitakāraka)-Pañcatantra	14		
Dr. Dinesh Kr. Das	Hons.	CC -3 Classical Sanskrit Literature(Prose) Course Section-AŚukanāsopadeśa- Kādambarī (As in Sanskrit Pāṭhamālā, B.U. (evaṁsamatikrāmatsu------ bhrātaraucchedyāḥ)	17	CC-9 Modern Sanskrit Literature Core Course Section-A (II)Cipiṭakacarvaṇa-ŚrījivaNyāyatīrtha	30	CC -13 Indian Ontology and Epistemology Core Course (A)Tarkasaṁgraha – (saptapadārtha, karaṇa, pratyakṣa and sannikarṣa) (B)Vedāntasāra - (Excluding the last portion beginning with	65

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

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

		Literature (Fables) (Pañcatantra,Hitopadeśa,Vetālapañcaviṁśati, Siṅhāsanadvātriṁśikā, Puruṣaparīkṣā)		Section-C Comprehension			
Prof. Chandrani Agarwala	**Gen.**	CC-2 Discipline -1(Sanskrit) Sanskrit Prose Section-A (30 classes) Daśakumāracarita-(Dvijopakṛti)	**34**	SEC-II Indian Theatre Drāmaturgy -- Sāhityadarpaṇa - Chapter- VI (Rūpaka,Nāndī,Vṛttis(withoutAṅgas),Prastāvanā,Arthaprakṛti,Arthopakṣepaka,Patākāsthānakas,Kārya,Avasthā, Sandhi (without Aṅgas) & Nāṭikā	**45**	DSE-II Literary Criticism I)Metrics – A General Concept of Sanskrit Metres and the definitions of the following Meters -- Indravajrā Upendravajrā,Upajāti, Vaṁśasthavila,Vasantatilaka, Mālinī & Mandākrāntā GE-II Ethical Issues in Sanskrit Literature (I) Hitopadeśa –Mitralābha (up to verse no.50) (II)Pañcatantra Mitrabheda Katha (Gomāyudundubhikathā)	**30+62**