DEPARTMENT OF MICROBIOLOGY

TEACHING PLAN OF RAMKRISHNA ROY

Microbiology (Honours) (2021-22) (July 2021 – June 2022)

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

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DEPARTMENT OF MICROBIOLOGY

TEACHING PLAN OF AMARNATH CHATTOPADHYAY

Microbiology (Honours) (2021-22) (July 2021 – June 2022)

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
Jan	**Sem-II (H)** **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	**Sem-IV (H)** **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	**Sem-VI (H)** **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**

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DEPARTMENT OF COMPUTER SCIENCE

TEACHING PLAN OF SRI HARADHAN MARDI

Computer Science (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** **CC-1A:Problem Solving using Computer** Unit1: Computer Fundamentals Unit2:Planning the Computer Program Unit3:Techniques of Problem Solving **Practical** **CC-1A: Problem Solving using Computer** Learning about hardware and software	14 4	**Theory** **CC-1C: Operating Systems** Unit1: Introduction Unit2: Types of operating systems Unit3: Operating System Organization **Practical** **CC-1C: Operating Systems** Shell scripting with basic commands **Theory** **SEC1:Office Automation Tools** Unit1: Introduction to open office/MS office/Libre office Unit2: Word Processing **Practical** **SEC1:Office Automation Tools** MS Word	14 4 4 2	**Theory** **DSE-1A: Programming In Java** Unit1: Introduction to Java Unit2: Object Oriented Programming Concept Unit3: Java Programming Fundamental **Practical** **DSE-1A: Programming In Java** Basic Java programming **Theory** **SEC3: MySQL/ PL-SQL** Unit1:SQL Vs. SQL * Plus Unit2:Managing Tables and Data **Practical** **SEC3: MySQL/ PL-SQL** SQL commands	13 4 4 2
Aug	**Theory:** **CC-1A: Problem Solving using Computer** Unit4:Overview of Programming Unit5:Introduction to Python **Practical** **CC-1A: Problem Solving using Computer** Section A(Simple programs):Solving simple mathematical problems.	12 4	**Theory** **CC-1C: Operating Systems** Unit 4: Process Management **Practical** **CC-1C: Operating Systems** Shell scripting **Theory** **SEC1:Office Automation Tools** Unit2: Word Processing **Practical** **SEC1:Office Automation Tools** MS Word	15 4 4 2	**Theory** **DSE-1A: Programming in Java** Unit3: Java Programming Fundamental Unit4: Classes and Objects **Practical** **DSE-1A: Programming in Java** Programming using concepts of Classes and objects **Theory** **SEC3: MySQL/ PL-SQL** Unit2:Managing Tables and Data **Practical** **SEC3: MySQL/ PL-SQL** SQL Functions	12 4 4 2
Sept	**Theory:** **CC-1A: Problem Solving using Computer** Unit6: Creating Python Programs **Practical** **CC-1A: Problem Solving using Computer** Section A (Simple programs):Programming using control statement	10 4	**Theory** **CC-1C: Operating Systems** Unit 5: Scheduling **Practical** **CC-1C: Operating Systems** Shell scripting **Theory** **SEC1:Office Automation Tools** Unit3: Spreadsheets **Practical** **SEC1:Office Automation Tools** MS Excel	12 4 4 2	**Theory** **DSE-1A: Programming in Java** Unit4:Classes and Objects Unit5:Arrays and Strings **Practical** **DSE-1A: Programming in Java** Programming using concepts of Classes, Objects, Strings and Arrays **Theory** **SEC3: MySQL/ PL-SQL** Uni3: Other Database Objects **Practical** **SEC3: MySQL/ PL-SQL** SQL Functions	12 4 4 2
Oct	**Theory:** **CC-1A: Problem Solving using Computer** Unit7: Structures **Practical** **CC-1A: Problem Solving**	10	**Theory** **CC-1C: Operating Systems** Unit 6: Memory Management **Practical** **CC-1C: Operating Systems**	8 4	**Theory** **DSE-1A: Programming in Java** Unit 6:Abstract Class, Interface and Packages **Practical**	8

	using Computer Section A(Simple programs):Programming using different structures	4	Shell scripting **Theory** **SEC1:Office Automation Tools** Unit3: Spreadsheets Special class **Practical** **SEC1:Office Automation Tools** MS Excel	2 2	**DSE-1A: Programming in Java** Programming with the concepts of Abstract Class, Interface and Packages **Theory** **SEC3: MySQL/ PL-SQL** Unit4: Transaction Control Statements **Practical** **SEC3: MySQL/ PL-SQL** PL/SQL	4 4 2
Nov	**Theory:** **CC-1A: Problem Solving using Computer** Unit9: Introduction to Advanced Python **Practical** **CC-1A: Problem Solving using Computer** Section B (Visual Python):Programming Visual Python	14 4	**Theory** **CC-1C: Operating Systems** Unit 6: Memory Management Unit7: Shell introduction and Shell Scripting **Practical** **CC-1C: Operating Systems** Shell scripting **Theory** **SEC1:Office Automation Tools** Unit4: Presentation Tools **Practical** **SEC1:Office Automation Tools** MS PowerPoint	8 4 4 2	**Theory** **DSE-1A: Programming in Java** Unit7:Exception Handling Unit8: File Handling **Practical** **DSE-1A: Programming in Java** Programming with Exception Handling and File Handling **Theory** **SEC3: MySQL/ PL-SQL** Unit4: Transaction Control Statements **Practical** **SEC3: MySQL/ PL-SQL** PL/SQL	9 4 4 2
Dec	**Theory:** **CC-1A: Problem Solving using Computer** Special classes + doubt clearing+ discussions **Practical** **CC-1A: Problem Solving using Computer** Practice classes	4 2	**Theory** **CC-1C: Operating Systems** Unit7: Shell introduction and Shell Scripting **Practical** **CC-1C: Operating Systems** Shell scripting **Theory** **SEC1:Office Automation Tools** Unit4: Presentation Tools **Practical** **SEC1:Office Automation Tools** MS PowerPoint	3 2 2 2	**Theory** **DSE-1A: Programming in Java** Unit9:Applet Programming **Practical** **DSE-1A: Programming in Java** Applet Programming **Theory** **SEC3: MySQL/ PL-SQL**Special Classes **Practical** **SEC3: MySQL/ PL-SQL** Practice classes	6 2 2 2
Jan	**Sem-II (G)** **Theory** **CC-1B: Database Management Systems** Unit1: Introduction to Database Management Systems **Practical** **CC-1B: Database Management Systems** DDL commands	10 8	**Sem-IV (G)** **Theory** **CC-1D: Computer System Architecture** Unit 1:Introduction **Practical** **CC-1D: Computer System Architecture** Designing instruction set **Theory** **SEC-2: HTML Programming** Unit 1: Introduction Unit2: The basics **Practical** **SEC-2: HTML Programming** Applying basic commands	12 4 5 2	**Sem-VI (G)** **Theory** **DSE-1B: Computer Networks** Unit1: Basic concepts **Practical** **DSE-1B: Computer Networks** Simulating Checksum Algorithm **Theory** **SEC4: PHP Programming** Unit 1:Introduction to PHP Unit 2:Handling HTML form with PHP **Practical** **SEC4: PHP Programming** Solving basic mathematical problems	16 4 6 2

Feb	**Theory** **CC-1B: Database Management Systems** Unit 2: Entity Relationship and Enhanced ER Modeling **Practical** **CC-1B: Database Management Systems** DML commands	15 8	**Theory** **CC-1D: Computer System Architecture** Unit 2: Data Representation and basic Computer Arithmetic Unit 3: Basic Computer Organization and Design **Practical** **CC-1D: Computer System Architecture** Problem solving using register reference instructions **Theory** **SEC-2: HTML Programming** Unit 3: Links **Practical** **SEC-2: HTML Programming** Creating links	14 4 3 2	**Theory** **DSE-1B: Computer Networks** Unit 2: Physical Layer Unit 3: Data Link Layer **Practical** **DSE-1B: Computer Networks** Simulating CRC Algorithm **Theory** **SEC4: PHP Programming** Unit 3: PHP conditional events and Loops **Practical** **SEC4: PHP Programming** Solving mathematical problems using array	14 4 3 2
Mar	**Theory** **CC-1B: Database Management Systems** Unit 3: Relational Data Model **Practical** **CC-1B: Database Management Systems** Query solving with SQL commands	15 8	**Theory** **CC-1D: Computer System Architecture** Unit 3: Basic Computer Organization and Design **Practical** **CC-1D: Computer System Architecture** Problem solving using memory-reference instructions **Theory** **SEC-2: HTML Programming** Unit 4: Images **Practical** **SEC-2: HTML Programming** Creating images	12 4 4 2	**Theory** **DSE-1B: Computer Networks** Unit 4: Network Layer Unit 5: Transport Layer **Practical** **DSE-1B: Computer Networks** Simulating Stop & Wait Protocol **Theory** **SEC4: PHP Programming** Unit 4: PHP Functions **Practical** **SEC4: PHP Programming** Solving mathematical problems using string	14 4 3 2
Apr	**Theory** **CC-1B: Database Management Systems** Unit 4: Database design **Practical** **CC-1B: Database Management Systems** Query solving with SQL commands	10 8	**Theory** **CC-1D: Computer System Architecture** Unit 4: Central Processing Unit **Practical** **CC-1D: Computer System Architecture** Problem solving using input-output reference instructions **Theory** **SEC-2: HTML Programming** Unit 5: Tables **Practical** **SEC-2: HTML Programming** Creating tables	10 4 4 2	**Theory** **DSE-1B: Computer Networks** Unit 6: Application Layer **Practical** **DSE-1B: Computer Networks** Simulate Go-Back-N Protocol **Theory** **SEC4: PHP Programming** Unit 5: String Manipulation and Regular Expression **Practical** **SEC4: PHP Programming** Solving mathematical problems using loop	10 4 4 2

May	**Theory** **CC-1B: Database Management Systems** Unit 4: Database design **Practical** **CC-1B: Database Management Systems** Query solving with SQL commands	10 8	**Theory** **CC-1D: Computer System Architecture** Unit 5: Programming the Basic Computer Unit 6: Input-output Organization **Practical** **CC-1D: Computer System Architecture** Problem solving using different type reference instructions **Theory** **SEC-2: HTML Programming** Unit 6: Forms **Practical** **SEC-2: HTML Programming** Creating forms	12 4 5 2	**Theory** **DSE-1B: Computer Networks** Unit 7: Network Security **Practical** **DSE-1B: Computer Networks** Simulating Selective Repeat Protocol **Theory** **SEC4: PHP Programming** Unit 6: Array **Practical** **SEC4: PHP Programming** Solving mathematical problems using recursion	6 4 4 2
June	**Theory** **CC-1B: Database Management Systems** Special class **Practical** **CC-1B: Database Management Systems** Query solving with SQL commands	4 4	**Theory** **CC-1D: Computer System Architecture** Special class **Practical** **CC-1D: Computer System Architecture** Repeat practical Class **Theory** **SEC-2: HTML Programming** Special class **Practical** **SEC-2: HTML Programming** Repeat practical Class	2 1 1 1	**Theory** **DSE-1B: Computer Networks** Special Classes **Practical** **DSE-1B: Computer Networks** Repeat practical Class **Theory** **SEC4: PHP Programming** Special classes **Practical** **SEC4: PHP Programming** Repeat practical Class	2 1 2 2

Haradhan Mandi

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DEPARTMENT OF COMPUTER SCIENCE
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SURI VIDYASAGAR COLLEGE

DEPARTMENT OF BENGALI S.V.C
Teaching Plan 2021-22

July-December 2021
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 2021-22

JULY-DECEMBER- 2021

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 2021-22

January-June 2022

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- ইউ.জি Class-30

সিসি-১০

নীলদর্পণ- এস.বি.এম Class-30

শারদোৎসব – পি.এম 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 2021-22

January-June 2022

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 CHEMISTRY

TEACHING PLAN OF Mrs. Ishani Sinha
Chemistry (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory:** **CC1: Bonding and Physcal properties** Valence Bond Theory **Practical** **CC1: Identification of single compound**	**4** **2**	**Theory** CC7: Electrophilic aromatic substitution **Practical** CC7: *Qualitative Analysis of Single Solid Organic Compounds part 1* **Theory** **SEC1:**	**8** **2**	**Theory** CC12: Polynuclear hydrocarbons and their derivatives **Practical** CC12: TLC separation of a mixture containing 2/3 amino acids 2. TLC separation of a mixture of dyes (fluorescein and methylene blue)	**6** **2**
Aug	**Theory:** CC1: MO theory **Practical** **CC1: Identification of single compound**	**4** **2**	**Theory** CC7: Nucleophilic aromatic substitution **Practical** CC: *Qualitative Analysis of Single Solid Organic Compounds Part 2*	**4** **2**	**Theory** **CC12:** Carbohydrates **Practical** CC12: Paper chromatographic separation of a mixture containing 2/3 amino acids	**6** **4**
Sept	**Theory:** CC1: Physical properties of organic compounds **Practical** **CC1: Identification of single compound**	**6** **2**	**Theory** CC7: *Organometallics* **Practical** CC7: Melting point of the given compound Preparation of one derivative of the given sample Part1 ,	**8** **2**	.**Theory** **CC12:** Biomolecules: amino acids and peptides **Practical** CC12: Column chromatographic separation of mixture of dyes	**8** **2**
Oct	**Theory:** CC1: Mechanistic classification of rteactions **Practical** **CC1: identification of single compound (liquid)**	**7** **2**	**Theory** CC7: Nucleophilic addition to α,β-unsaturated carbonyl system **Practical** **CC7:** Preparation of one derivative of the	**8** **2**	**Theory** **CC12:** Biomolecules: Nucleic acids **Practical** **CC12:** Spectroscopic Analysis of Organic Compounds:Part1	**8** **2**

			given sample Part 2			
Nov	**Theory:** **CC1: Reactive Intermediates** **Practical** **CC1: Practical Revision**	**8** **2**	**Theory** **CC7:** Nucleophilic addition to α,β-unsaturated carbonyl system **Practical** **CC7: Detection of unknown organi sample** .	**7** **2**	**Theory** **CC12:** Alkaloids and Terpenoids part I **Practical** **CC12:** Spectroscopic Analysis of Organic Compounds: Part 2	**4** **2**
Dec	**Theory:** **CC1: Organic chemistry** Special classes + doubt clearing+ discussions **Practical** **CC1: Organic Chemistry** Practice classes	**4** **2**	**Theory** **CC6:** *Organometallics* **Practical** **CC7: Revision**	**3** **1**	**Theory** **CC12:** Alkaloids and Terpenoids part II **Practical** **CC12: Revision**	**4** **1**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory **CC3:** Reaction kinetics, Concept of organic acids and bases **Practical** **CC3**Hydrolysis of amides/imides/esters	**6** **2**	**Theory** **CC10** *Nitrogen compounds* **Practical** **CC10** Estimation of vitamin-C (reduced) SEC-2 *Drugs & Pharmaceuticals Part 1* .	**4** **2** **2**	**Theory** **DSE-3:** Designing greener processes **Practical** **DSE-3:** Benzoin condensation using Thiamine Hydrochloride as a catalyst	**2** **2**
Feb	**Theory** **CC3:**Reaction thermodynamics **Practical** **CC3:** Condensation reactions: Synthesis	**5**	**Theory** **CC10:** Rearrangement to electron-deficient carbon and oxygen **Practical CC10:**	**5**	**Theory** **DSE-3:**Use of microwaves and ultrasonic energy in green processes.	**2**

	of 7-hydroxy-4-methylcoumarin	2	Estimation of phenol by bromination (Bromate-Bromide) method SEC-2 *Drugs & Pharmaceuticals Part 2*	2 4	**Practical** **DSE-3:** Photoreduction of benzophenone to benzopinacol in the presence of sunlight.	2
Mar	**Theory** **CC3:** Tautomerism **Practical** **CC3: 1.** Benzoylation of phenols/aromatic amines		**Theory** **CC10:** Aromatic rearrangements **Practical** **CC10:** Estimation of acetic acid in commercial vinegar SEC-2 *Fermentation Part 1*	5 2 3	**Theory** **DSE-3:** Selection of starting materials, Preferential use of catalytic reagents **Practical** **DSE-3:** Preparation of propene by two methods can be studied, Other types of reactions, like addition, elimination, substitution and rearrangement should also be studied for the calculation of atom economy. .	3 2
Apr	**Theory** **CC3:** Free-radical substitution reaction, **Practical** **CC3** 1. Bromination of acetanilide using green approach (Bromate-Bromide method)	8 2	**Theory** **CC10:** Migration from nitrogen to ring carbon, Rearrangement reactions by green approach **Practical** **CC10** . Estimation of saponification value of oil/fat/ester SEC-2 *Fermentation*	4 4 3	**Theory** **DSE-3:** Development of green analytical techniques, Green synthesis of adipic acid **Practical** **DSE-3: Revision** .	3 1

			Part 2			
May	**Theory** **CC3:** Elimination reactions, **Practical** **CC3: 1.** Green 'multi-component-coupling' reaction: Synthesis of dihydropyrimidone 2. Selective reduction of m-dinitrobenzene to m-nitroaniline	**8** **2**	**Theory** **CC10:** *Organic Spectroscopy: UV spectra* **Practical** **CC10: Revision**	**4** **2**	**Theory** **DSE-3:** Application of surfactant absorbed carbon dioxide for dry cleaning **Practical** **DSE-3: Revision**	**3** **2**
June	**Theory** **CC3:** doubt clearing **Practical** **CC3: Practical revision**	**2** **2**	**Theory** **CC10:** Asymmetric synthesis and **Doubt clearing** **Practical** **CC10: Practical Revision**	**2** **1**	**Theory** **CC14:** An efficient, green synthesis of a compostable and widely applicable plastic (poly lactic acid) made from corn **Practical** **DSE-3: Revision**	**3** **2**

HEAD OF THE DEPT. OF CHEMISTRY
SURI VIDYASAGAR COLLEGE

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

DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF Mrs. Ishani Sinha

Chemistry (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** **CC1A/GE1: Electronic Displacement: Inductive Effect, Resonance, Hyperconjugation,Homolytic and Heterolytic fission of bonds, Structure of organic molecules on the basis of VBT, Nucleophile, Electrophile, Reactive Intermediate: Carbonation, Carbanion, Free Radicals.** **Practical** **CC1A/ GE1: Lassaigne Test: Detection of Special Elements**	**6** **2**	**Theory** **CC1C/GE3: Aromatic hydrocarbons: Benzene, preparation from phenol, decarboxylation, acetylene, brnzene sulphonic acid. Reaction: General Mechanism of aromatic electrophilic substitution.** **Practical** **CC1C/GE3: Identification of pure organic compounds: oxalic acid, succinic acid**	**7** **2**	**Theory** DSE 1A: Fuels **Practical** DSE 1A: 1.Titration of Na2CO3 and NaHCO3 mixture by HCl using Phenolpthalein indicator. 2.Practice classes.	**3** **2**
Aug	**Theory:** **CC1A/GE1: Stereochemistry** **CC1A/ GE 1: Solubility Test of solid organic compounds.**	**6** **2**	**Theory** **CC1C/GE3: Nitration, Halogenation, Sulphonation, Fridel Craft Alkylation, acetylation and side chain oxidation of aromatic hydrocarbons.** **Practical** **CC1C/GE3: Identification of pure organic compounds: Salicylic Acid, Benzoic Acid**	**5** **2**	**Theory** DSE 1A : Fertilizers **Practical** DSE1A: 1.Titration of HCl and CH3COOH mixture by NaOH using different indicators. 2.Practice classes.	**4** **2**
Sept	**Theory:** **CC1A/GE1: Substitution and Elimination Reaction: SN1,SN2, E1,E2, Saytzeff and Hoffmann Elimination Alkanes. Preparation: Catalytic hydrogenation, Wurtz Reaction, Kolbe Synthesis, From Grignard Reagent.** **Practical** **CC1A/GE1: Detection of functional group: -COOH, phenolic -OH, carbonyl group.**	**6** **2**	**Theory** **CC1C/GE3: Aryl Halides, Preparation from Phenol, Sandmeyer Reaction, Nucleophilic Aromatic Substitution, Effect of Nitro group** **Practical** **CC1C/GE3: Identification of pure organic compounds: Resorcinol, Urea** ,	**4** **2** **2**	.**Theory** DSE 1A: Glass and Ceramics : Part 1 **Practical** DSE 1A: 1.Estimation of total hardness of water by standard EDTA solution. 2. Practice classes.	**3** **2**
Oct	**Theory:** **CC1A/ GE1: Reaction of alkanes: General Mechanism for free radical substitution and Halogenation;** **Alkene. Preparation: Dehydration of Alcohol, Dehydrohalogenation. Cis Alkene and Trans Alkene.** **Practical** **CC1A/GE1: Detection of functional group: Ar -NO2 and Ar -NH2 group**	**6** **2**	**Theory** **CC1C/GE3 : Grignard Reagent, Preparation, Concept of Umpolung,Reformatsky reaction** **Practical** **CC1C/GE3 : Identification of pure organic compounds: Glucose, Acetone**	**4** **2** **2**	**Theory** DSE 1A : Glass and Ceramics: Part 2 **Practical** **DSE 1A:** **Practice classes**	**3** **2**
Nov	**Theory:** **CC1A/GE1: Alkene. Cis addition, Trans addition, Markownikoff's Addition and anti Markownikoff's Addition, hydration, ozonolysis, oxymercuration, demercuration,**	**4** **2**	**Theory** **CC1C/GE3 : Reimer Tiemann Reaction, Houben Hoesch Reaction, Schotten Baumann Reaction, Fries and Claisen Rearrangements, Problems with examples**	**5** **2**	Theory DSE 1A : Cement Practical	**3** **2**

	hydroboration, oxidation. **CC1A/GE1: Detection of unknown organic sample**		**Practical** **CC1C/GE3 :Identification of pure organic compounds: Aniline , Nitrobenzene** .	**2**	DSE 1A : Practice classes	
Dec	**Theory:** **CC1A/GE1: Organic chemistry** Alkyne. Preparation and conversation into higher alkynes. Formation of metal acetylides, addition of Br2 and alkaline KMnO4 **Practical** **CC1A/GE1: Organic Chemistry** Practice classes	**4** **2**	**Theory** **Revision and discussion of previous lessons** **Practical** **CC1C/GE3 :Unknown Samples**	**3** **1** **1**	**Theory** **DSE1A : Revision and doubt clearing classes** **Practical** **DSE 1A : Revision**	**3** **3**
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
	Theory **CC1B/GE2:** **Practical** **CC1B/GE2:**		**Theory** **CC1D/GE4:Environmental Chemistry: Hydrosphere : Environmental Role of Water** **Practical** **CC1D/GE4:** Estimation of total hardness of water by titration with EDTA. .	**4** **2** **2**	**Theory** **DSE-1B : Amino acids** **Practical** **DSE-1B: 1. Nitration of acetanilide** **2.. practice classes**	 **4** **2**
Feb	**Theory** **CC1B/GE2:** **Practical** **CC1b/GE2 :**		**Theory** **CC1D/GE 2-** Waste Water Management **Practical** **CC1D/GE4:** 3. Acid Catalysed Hydrolysis of Ester	**3** **2**	**Theory** **DSE-1B: Carbohydrates: Part 1** **Practical** **DSE-1B : Hydrolysis of Benzamide, Practice classes**	**4** **3**

Mar	**Theory** **CC1b/GE2 :** **Practical** **CC1b/ GE 2:**		**Theory** **CC1D/GE4: BOD, COD , DO and Hardness parameters of water etc.** **Practical** **CC1D/GE4:** Determination of strength of H2O2	**4** **2**	**Theory** **DSE-1B : Carbohydrates: Part 2** **Practical** **DSE-1B : Benzoylation of Aniline.** **Practice classes** .	**4** **3**
Apr	**Theory** **CC1b/GE2 :** **Pracical** **CC1b/ GE 2:**		**Theory** SEC 2 : Drugs and Pharmaceutical Chemistry: Drug discovery and synthesis, use and adverse effects of analgesic, antipyretic and anti inflammatory drugs. **Practical** **CC1D/GE4: Revision.**	**5** **2**	**Theory** DSE 1B: Drugs and Pharmaceuticals: Preparation and uses of Aspirin, Paracetamol, Sulphadiazine, Metronidazole **Practical** **DSE-1B: Estimation of saponification value of oil.** **Practice classes** .	**3** **2**
May	**Theory** **CC1b/GE2 :** **Practical** **CC1b/GE2 :**		**Theory** SEC 2 : Synthesis, use and adverse effects of antibiotic, anti bacterial and anti fungal drugs. **Practical** **CC1D/GE4 : Revision**	**5** **2**	**Theory** **DSE-1B: Pesticides: Gammaxene, Parathion, DDT** **Practical** **DSE-1B : Estimation of Acetic acid in commercial vinegar**	**2** **3**

June	**Theory** **CC1b/GE2 :** **Practical** **CC1b/ GE2 :**		**Theory** **SEC 2 : Synthesis, use and adverse effects of antiviral and CNS depressant drugs, HIV related drugs.** **Practical** **CC1D/GE4 : Practical Revision**	**4** **3**	**Theory** DSE 1B: Food additives **Practical** **DSE-1B: Revision classes**	**3** **2**

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DEPARTMENT OF CHEMISTRY

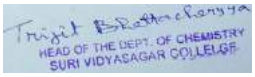
TEACHING PLAN OF PROF PANKAJ ROY
Chemistry (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul			**Theory:CC-1C:** Chemical Energetics ;thermodynamics;state and path functions; **Practical :** Measurement of pH of different solutions	**4** **4**	**Theory** **SEC-3:** **Basics & Application of Computer in Chemistry** *Mathematics;*Fundamentals:	**4**
Aug			**Theory:CC-1C:** Chemical Energetics ;thermodynamics;Concept of heat, work, internal energy and statement of first law; **Practical :**Measurement of pH of different solutions	**4** **4**	**Theory** **SEC-3: Basics & Application of Computer in Chemistry** *Mathematics;*Uncertainty in measurement:	**4**
Sept			**Theory:CC-1C:** Chemical Energetics ;thermodynamics;Heats of reaction; **Practical :** Preparation of buffer solutions and find the pH	**4** **6**	.**Theory:SEC-3: Basics & Application of Computer in Chemistry** *Mathematics;*Differential calculus:	**4**
Oct			**Theory:CC-1C:** Chemical Energetics ;thermodynamics;Laws of thermochemistry;	**3**	**Theory :** **SEC-3: Basics & Application of Computer in**	**3**

			Practical : Study of the solubility of benzoic acid in water	**2**	**Chemistry** *Computer Programming;*Simple computer programs,Statistical analysis.	
Nov			**Theory:CC-1C:** Chemical Energetics ;thermodynamics;second law of thermodynamics; **Practical :** Practice.	**5** **2**	**Theory:SEC-3 :Basics & Application of Computer in Chemistry** *Computer Programming ;*BASIC programs for curve fitting, finding roots.	**3**
Dec			**Theory:CC-1C:** Special classes: **Practical** Practice.	**2** **2**	**Theory :** **SEC-3:**Special classes:	**2**
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
	Theory : **CC-1B (Theo) :** Kinetic Theory of Gases and Real gases . **Practical :**Surface tension measurement	**3** **2**	**Theory :** **CC-1D:***Solutions ;*Ideal solutions and Raoult's law ; **Practical :** **CC-1D:**Distribution Law;Study of the equilibrium	**3** **2**	***Theory :*** **SEC-4 :***Introduction and history of polymeric materials.* ***Theory:*** ***DSE-1B:*** **Industrial Chemistry;**Polymers: basic concept.	**2** **2**
Feb	**Theory :** **CC-1B (Theo)** Surface tension,	**4**	**Theory :** **CC-1D** **:***Solutions;*Distillation of	**4**	**Theory :** **SEC-4:**Functionality and its importance in	**2**

	Viscosity of a liquid . **Practical :** Study of the variation of surface tension of a detergent solution with concentration	**2**	solutions; curves of ideal and non-ideal solutions; **Practical :** **CC-1D:** potentiometric titration: r.	**4**	polymer chemistry. **Theory :** **DSE-1B:**structure and types of plastics.	**2**
Mar	**Theory :** **CC-1B (Theo)** Chemical Kinetics ;Order and molecularity; .Diffe rent types of reactions. **Practical :** Study of the variation of viscosity of an aqueous solution with concentration of solute.	**5** **2**	**Theory :***Solutions;*solvent extraction Phase rule ;phase equilibrium; **CC-1D:** **Practical:** **CC-1D;** potentiometric titration: .	**4** **4**	**Theory :** **SEC-4:**Kinetics of polymerization. **Theory :** **DSE 1B:**PVC; manufacture, physical properties.	**2** **2**
Apr	**Theory :** **CC-1B (Theo)** Chemical Kinetics ;Collision theory;Transition State theory **Practical :** Study the kinetics Iodide-persulphate reaction	**4** **2**	**Theory :** **CC-1D:**Phase rule ;thermodynamic derivation; **Practical :** **CC-1D;**Determination of dissociation constant	**4** **4**	**Theory :** **SEC-4:**Properties of polymers. **Theory :** **DSE 1B:** Paints: constituents; formulation.	**2** **2**
May	**Theory :** **CC-1B:** Temperature dependence of rate constant; **Practical :** Acid hydrolysis of methyl acetate with hydrochloric acid	**3** **2**	**Theory :** **CC-1D:** *Phase Equilibria;*Phase diagrams **Practical :** **CC-1D:** Determination of dissociation constant	**3** **2**	**Theory** **SEC-4:** Determination of molecular weights. **Theory :** **DSE1B:** Binders and solvents for paints.	**2** **2**

June	**Theory :** **CC-1B:** Special classes . **Practical :** Practice.	**2**	**Theory :** **CC-1D:** Special classes. **Practical :**Special classes.	**1** **1**	**Theory :** **SEC-4:** Special classes. **Theory :** **DSE1B :**Special classes.	**1** **1**



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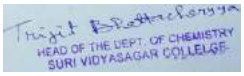
Chemistry (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lectures	Sem-III (H)	No. of Lectures	Sem-V (H)	No. of Lectures
Jul	**Theory:** **CC2:** Kinetic Theory of gases: Collision of gas molecules; Role of Temperature and theories of reaction rate: **Practical** **CC2:**Determination of pH of unknown solution.	**8** **2**	**Theory** **CC5:** *Transport Processes:* Fick's law: . **Practical** **CC5;** Study of saponification reaction conductometrically.	**6** **4**	**Theory** **DSE1: Statistical Thermodynamics:**Configuration: Macrostates, microstates andconfiguration; ; **Practical :** DSE1:Computer Programming :Basic idea. .	**6** **4**
Aug	**Theory:** **CC2:** Maxwell's distribution of speed and energy. **Practical:** **CC2:** Determination of the reaction rate constant .	**8** **2**	**Theory** **CC5:** Viscosity. **Practical** **CC5:** Study of viscosity of unknown liquid.	**8** **4**	**Theory** **DSE1:Statistical Thermodynamics** Boltzmann distribution. **Practical:** DSE1:Computer Programming ; Roots of equations. .	**6** **4**
Sept	**Theory:** **CC2:** Kinetic energy distribution. **Practical :** **CC2:** Determination of the reaction rate constant.	**8** **4**	**Theory:** **CC5:**Conductance and transport number. **Practical :** **CC5:** Conductometric titration.	**12** **6**	.**Theory: Statistical Thermodynamics:** Partition function. **Practical :** DSE1: Computer Programming;Numerical differentiation .	**8** **4**
Oct	**Theory:** **CC2:**Chemical kinetics; Rate law,order. **Practical :** **CC2:** Determination of solubility product.	**6** **2**	**Theory :** **CC5:** Conductance,Kohlrausch's law. **Practical :** **CC5:** Verification of Ostwald's dilution law.	**4** **2**	**Theory :** **DSE1:Special selected topics:** Specific heat of solid. **Practical :** DSE1: Computer Programming **;**Numerical differentiation.	**6** **4**

Nov	**Theory:** **CC2:**Enzyme catalysis reaction. **Practical :** **CC2:** Study of kinetics ofhydrolysis.	**8** **4**	**Theory :** **CC5:**Nernst's distribution law; **Practical :** **CC5:**1. Determination of partition coefficient .	**7** **4**	**Theory: DSE1:** 3rd law: Absolute entropy, Nernst heat theorem. **Practical:DSE1:**Computer Programming ;Numerical integration	**4** **2**
Dec	**Theory:** **CC2:** Special classes + doubt clearing+ discussions **Practical** **CC2:** Practice classes	**4** **2**	**Theory :** **CC5:** Thermodynamic parameters of mixing; Concept of standard states. **Practical** **CC5:** . Determination of Keq for KI + I2 =KI3,	**4** **4**	**Theory :** **DSE1:** Special classes. **Practical:** DSE1: Computer Programming Practice;	**4** **2**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
			Theory : **CC8:***Application of Thermodynamics – II :*Colligative properties: Raoult's law; **Practical :** **CC8:** Determination of solubility of sparingly soluble salt.	**4** **4**	***Theory :*** ***CC14;Surface phenomenon;*** Surface tension and energy: ***Practical :*** ***CC14:***Determination of surface tension of a liquid. ***Theory :*** ***DSE3:*** Introduction and history of polymeric materials **.** ***Practical :*** ***DSE4: Polymer Synthesis*** 1. Preparation of nylon 66/6 .	**8** **4** **4** **4**
Feb			**Theory :** **CC8:** *Application of Thermodynamics – II* Colligativeproperties;Relative lowering of vapour pressure, Elevation of boiling point, Depression of freezing point,Osmotic pressure. **Practical :**	**10**	**Theory :** **CC14:**Surface phenomenon; Adsorption: **Practical :** **CC14:** Determination of CMC from surface tension measurements. **Theory :** **DSE3:**Determination of molecular weight of	**8** **2** **4**

			CC8: Determination of solubility of sparingly soluble salt in water.	**4**	polymers ;Molecular weight distribution and its significance. **Practical :** **DSE3:** Determination of hydroxyl number of a polymer.	**2**
Mar			**Theory :** **CC8:** *Application of Thermodynamics – II ;*Phase rule : **Practical:** **CC8;** Study of phenol-water phase diagram.	**8** **4**	**Theory :** **CC14:**Surface phenomenon & heterogenous catalysis . **Practical :** **CC14:** Determination of CMC from surface tension measurements. **Theory:** **DSE3:**Functionality and its importance ; **Practical :** **DSE3:**Polymer Characterization ;	**6** **4** **4** **4**
Apr			**Theory :** **CC8:***Application of Thermodynamics – II ;*Phase rule ;Phase diagram for water, CO2, Sulphur. **Practical :** **CC8;**Effect of ionic strength.	**6** **4**	**Theory :** **CC14:**Colloids: **Practical :** **CC14:** Determination of pH of unknown buffer, spectrophotometrically. **Theory :** **DSE3;**Properties of Polymer ; **Practical :** **DSE3;** Preparations of novalac resin/ resold resin.	**6** **2** **4** **2**
May			**Theory :** **CC8:** *Application of Thermodynamics – II;*Binary solutions: Liquid-liquid phase diagram. **Practical :** **CC8;** Determination of Ksp for AgCl.	**6** **4**	**Theory** **CC14: Surface phenomenon :** zeta potential; Micelle **Practical :** **CC14:**Verification of Beer and Lambert's Law. **Theory :** **DSE3:**Kinetics of Polymerization ;	**4** **2** **4**

					Practical : **DSE3:**Polymer Characterization.	**4**
June			**Theory :** **CC8:** *Application of Thermodynamics – II* Special classes	**4**	**Theory :** **CC14:**Rate of Photochemical processes: HI decomposition, H_2-Br_2 reaction, **Practical :** **CC14:** Determination of pH of unknown buffer, spectrophotometrically. **Theory :** **DSE3:** Glass transition temperature. **Practical :** **DSE3:** Polymer Analysis:	**6** **4** **2** **2**



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Chemistry (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul	**Practical** **CC-1A:** Detection of special elements (N, Cl, and S) in organic compounds. 2. Solubility and Classification (solvents: H2O, dil. HCl, dil. NaOH)	**6**	**Theory** CC-1C: Thermodynamic conditions for equilibrium, K_P, K_C and K_X	**6**	.	
Aug	**Practical:** **CC-1A:** Detection of functional groups: Aromatic-NO_2, Aromatic -NH_2,	**6**	**Theory** CC-1C: van't Hoff's reaction isotherm, Le Chatelier's principle	**6**	. .	
Sept	**Practical :** **CC-1A:** Detection of functional groups: -COOH, carbonyl , -OH (phenolic) in solid organic compounds. Estimation of Cu (II) ions iodometrically using $Na_2S_2O_3$.	**10**	**Theory:** CC-1C: degree of ionization, ionic product, Salt hydrolysis,pH	**8**	. .	
Oct	**Practical :** **CC-1A:** Estimation of water of crystallization in Mohr's salt by titrating with $KMnO_4$. 4. Estimation of Fe (II) ions by titrating it with $K_2Cr_2O_7$ using internal indicator.	**6**	**Theory :** CC-1C: Buffer solutions; Solubility, solubility product, applications	**8**		
Nov	**Practical :** **CC-1A:** Estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture. 2. Estimation of oxalic acid by titrating it with $KMnO_4$.	**8**	**Theory :** SEC Biochemistry of disease	**6**		

Dec	**Practical:** **CC-1A:** Practice	**4**	**Theory :** CC-1C: Doubt clearing,special classes	**4**	;	
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
	PRACTICAL **CC-1B** Acid Radicals: Cl^-, Br^-, I^-, NO_2^-, NO_3^-	**5**	**Theory :** **CC-1D:**cell constant, specific conductance and molar conductance; **Practical : CC-1D** To find the total hardness of water by EDTA titration.	**6** **4**	***Theory :***DSE-1B (Theo) Carboxylic acids (aliphatic and aromatic):	**8**
Feb	**PRACTICAL** **CC-1B** S^{2-}, SO_4^{2-}, PO_4^{3-}, BO_3^{3-}, H_3BO_3.	**5**	**Theory :**Kohlrausch's law, Ostwald's dilution law; Ostwald's dilution law; **Practical : CC-1D** To find the PH of an unknown solution by comparing color of a series of HCl solutions + 1 drop of methyl orange,	**10** **4**	**Theory :** DSE-1B Carboxylic acid derivatives (aliphatic):	**6**
Mar	**PRACTICAL** **CC-1B** Basic Radicals: Na^+, K^+, Ca^{2+}, Sr^{2+}, Ba^{2+},	**5**	**Theory :** **CC-1D:** Faraday's laws of electrolysis, rules of oxidation/reduction of ions based on half-cell potentials, applications of electrolysis in	**4**	**Theory :** DSE-1B Carboxylic acid derivatives	**8**

			metallurgy and industry **Practical:** **CC-1D** To find the PH of an unknown solution by comparing color of NaOH solutions + 1 drop of phenolphthalein.	**4**		
Apr	**PRACTICAL** **CC-1B** Basic Radicals: Mn^{2+}, Fe^{3+}, Ni^{2+}, Cu^{2+}, NH_4^+.	**5**	**Theory :** **CC-1D** Chemical cells, reversible and irreversible cells **Practical :CC – 1D** Determination of the strength of the H_2O_2 sample. 5. To determine the solubility of a sparingly soluble salt, e.g. KHTa (one bottle	**6** **6**	**Theory :** DSE-1B: Amines,	**8**
May	**PRACTICAL** **CC-1B** Practice class	**4**	**Theory :** **CC-1D:** Concentration cells **Practical : CC-1D** To determine the rate constant for the acid catalysed hydrolysis of an ester.	**6** **4**	**Theory:** DSE-1B Diazonium salts, Nitro compounds	**8**
June	**PRACTICAL** **CC-1B** Practice class	**4**	**Theory :** **THEORY: CC-1D** Special classes **PRACTICAL :CC-1D** Practice class	**4** **6**	**Theory :** DSE-1B Special classes Doubt clearing	**5**

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Month	Sem-I (H)	No. of Lectures	Sem-III (H)	No. of Lectures	Sem-V (H)	No. of Lectures
Jul	**Theory:** **CC2:** Kinetic Theory of gases: Real gas,Deviation of gases from ideal behavior; **Practical** **CC2:**Determination of pH of unknown solution.	**8** **2**	**Theory** **CC5:** Chemical potential and activity,	**4**	**Theory** **DSE1:** Types of solid,Laws of crystallography (Haüy's law and Steno's law)	**6**
Aug	**Theory:** **CC2:** Critical constants, virial equation of state; **Practical:** **CC2:** Determination of the reaction rate constant .	**8** **2**	**Theory** **CC5:** Gibbs-Duhem equation; fugacity and fugacity coefficient;	**4**	**Theory** **DSE1:**.Crystal planes:	**8**
Sept	**Theory:** **CC2:** Zeroth and 1st law of Thermodynamics: **Practical :** **CC2:** Determination of the reaction rate constant.	**8** **4**	**Theory:** **CC5:**Thermodynamic conditions for equilibrium,	**4**	**Theory:** **DSE -1:**Powder method; Structure of NaCl and KCl crystals	**4**
Oct	**Theory:** **CC2:**Thermochemistry **Practical :** **CC2:** Determination of solubility product.	**6** **2**	**Theory :** **CC5:**Thermodynamic conditions for equilibrium,Le Chatelier's principle	**4**	**Theory :** **DSE1:**Polymers	**8**
Nov	**Theory:** **CC2:**Second Law,Thermodynamic relations:	**8** **4**	**Theory :** **CC5:** Ionic mobility	**4**	**Theory:** **DSE1:**Dipole moment and polarizability:	**6**

	Practical : **CC2:** Study of kinetics ofhydrolysis.					
Dec	**Theory:** **CC2:** Special classes + doubt clearing+ discussions **Practical** **CC2:** Practice classes	**4** **2**	**Theory :** **CC5:**Special classes + doubt clearing+ discussions	**4**	**Theory :** **DSE1:** Special classes.	**4**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory: **CC -4:**Concept of organic acids **Practical** **CC-4 :**Nitration of acetanilide , Melting point	**8** **4**	**Theory :** **CC8:**Ionic equilibria: Chemical potential of an ion in solution	**5**	***Theory :*** ***CC14:***Molecular Spectroscopy 1. Interaction of electromagnetic radiation with molecules and various types of spectra; Born-Oppenheimer approximation	**6**
Feb	**Theory:** **CC -4:** Concept of organic bases **Practical** **CC-4:**Hydrolysis of amides,Melting point	**8** **4**	**Theory :** **CC8:** Debye-Hückel limiting law-brief qualitative description of the postulates involved, qualitative idea of the model, the equation solubility of sparingly soluble salt in water.	**6**	**Theory :** **CC14:** Rotation spectroscopy, Vibrational spectroscopy	**10**
Mar	**Theory:** **CC -4 :**Reaction thermodynamics **Practical**	**8**	**Theory :** **CC8:** Derivation of mean ionic activity coefficient from the expression of ion-atmosphere	**6**	**Theory :** **CC14:**Raman spectroscopy:	**6**

	CC-4;Diazo coupling reactions of aromatic amines,Melting point	**4**	interaction potential; Applications of the equation and its limitations.			
Apr	**Theory:** **CC -4 :**Reaction kinetics **Practical** **CC-4:**Acetylation of phenols,Melting point	**8** **4**	**Theory :** **CC8:**Quantitative aspects of Faraday's laws of electrolysis, rules of oxidation/reduction of ions based on half-cell potentials, reversible and irreversible cells	**4**	**Theory :** **CC14:**Nuclear Magnetic Resonance	**6**
May	**Theory:** **CC -4 :**Special classes + doubt clearing+ discussions **Practical** **CC-4 : practice**	**4** **6**	**Theory :** **CC8:** Nernst equation, Concentration cells	**10**	**Theory** **CC14:** Lambert-Beer's law:	**6**
June	**Theory:** **CC -4 :**Special classes + doubt clearing+ discussions **Practical: CC-4 : practice**	**4**	**Theory :** **CC8: :**Special classes + doubt clearing+ discussions	**4**	**Theory :** **CC14:** Special classes + doubt clearing+ discussions	**4**

Head of the Department,
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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2021-22) (July 2021-June 2022)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	**CC-6** **MODULE-1B** **UNIT-I & II** Covalent bond: Polarizing power and polarizability, ionic potential, Fazan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	**CC-11** **MODULE-02** **UNIT-1 (Transition Elements):** General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		**CC-6** **MODULE-1B** **UNIT-III** Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	**MODULE-03** **UNIT-I (Lanthanoids and Actinoids):** General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		**CC-6** **MODULE-2B** **UNIT-I** Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	**DSE-2** **MODULE-01 (Qualitative and quantitative aspects of analysis):** **UNIT-I** Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. **UNIT-II** Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data& confidence intervals.
Oct		**CC-6** **MODULE-2C** **UNIT-I** Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipoleinteractions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	**DSE-2** **MODULE-02 (Optical methods of analysis):** **UNIT-I** Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. **UNIT-II** UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		**CC-6** **MODULE-02** **UNIT-II** Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	**DSE-2** **MODULE-02** **UNIT-V** Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and Burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		**CC-6** **MODULE-03** **UNIT-I** Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of	**DSE-2** **MODULE-05 (Separation techniques):** **UNIT-I** Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation.

		nuclear quantum number, magic numbers.	**UNIT-II** Technique of extraction: batch, continuous and counter current extractions. **UNIT-III** Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. **UNIT-IV** Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
	SEM-II(H)	**SEM-IV (H)**	**SEM-VI(H)**
Jan	**CC-3** **MODULE-02** **UNIT-I & II** Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	**CC-9** **MODULE-02** **UNIT-I** Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	**MODULE-08** **UNIT-I** Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. **UNIT-II** Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. **UNIT-III** Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	**CC-3** **MODULE-02** **UNIT-III & IV** Atomic radii, ionic radii (Pauling's univalent), covalent radii, lanthanide contraction. Ionization potential,electron affinity and electronegativity (Pauling's, Mulliken's and Allred-Rochow's scales) and factors influencing these properties, group electronegativities.	**CC-9** **MODULE-02** **UNIT-II** Study of the following compounds with emphasis on structure, bonding,preparation, properties and uses. Beryllium hydrides and halides. Boric acid and borates.	**MODULE-08** **UNIT-IV** The t-distribution and application, confidence limit, significance testing, least-squares analysis, sensitivity and detection limit. **MODULE-9A** **UNIT-I** Acid-base reaction: polyprotic acids, mixture of monoprotic acids, reactions in non-aqueous solvents, levelling effect, titration in basic solvents and in glacial acetic acid.
Mar	**CC-3** **MODULE-02; UNIT-V** Group trends and periodic trends in these properties in respect of s-, p- and d-block elements. Secondary periodicity, Relativistic Effect, Inert pair effect. **MODULE-03; UNIT-I** Acid-Base concept: Arrhenius concept, theory of solvent system (in H2O, NH3, SO2 and HF), Bronsted-Lowry's concept, relative strength of acids, Pauling's rule.	**CC-9** **MODULE-02** **UNIT-III & IV** Boron nitrides, borohydrides (diborane) and graphitic compounds, silanes. Oxides and oxoacids of nitrogen, phosphorus, sulphur and chlorine. Peroxo acids of sulphur.	**MODULE-9A** **UNIT-II** Redox reaction: Redox titrations: feasibility, indicator, different types like chromometry,permangonometry, iodometry and iodimetry. **UNIT-III** Complexometric reaction: different multidentate ligands as complexometric titrants, applications ofEDTA, metal ion indicator, typical examples of EDTA titration, masking/demasking agent. **UNIT-IV** Precipitation reaction: a few typical examples like Vohlard titration, use of adsorption indicators.
Apr	**CC-3** **MODULE-03; UNIT-II & III** Lux-Flood concept, Lewis concept, group characteristics of Lewis acids, solvent levelling and differentiating	**CC-9** **MODULE-02** **UNIT-V&VI** Sulphur-nitrogen compounds, Basic properties of halides and polyhalides,	**MODULE-9C** **UNIT-I** Spectrophotometric analysis; Principle and terminology, Lambert-Beer's law and its limitations.

	effects. Thermodynamic acidity parameters, Drago-Wayland equation. Superacids, Gas phase acidity and proton affinity	interhalogen compounds, polyhalides, pseudohalides, fluorocarbons and chlorofluorocarbons.	**UNIT-II** Colorimetric determination of single analyte, spectrophotometric determination of multicomponent analytes, atomic absorption/emission spectrometry: principles and instrumentations, estimation of sodium and potassium in water samples.
May	**CC-3** **MODULE-03; UNIT-IV** .HSAB principle. Acid-base equilibria in aqueous solution (Proton transfer equilibria in water), pH, buffer. Acid-base neutralization curves; indicator, choice of indicators.	**CC-9** **MODULE-03** **UNIT-I** Noble Gases: Occurrence and uses, rationalization of inertness of noble gases, Clathrates; preparation, structures (VSEPR theory) and properties of XeF2, XeF4 and XeF6; Nature of bonding in noble gas compounds (Valence bond treatment and MO treatment for XeF2 and XeF4). Xenon-oxygen	**MODULE-10** **UNIT-I** Methodologies in separational chemistry; Basic principle of solvent extraction, distribution ratio, extraction equilibria and effect of pH, Craig,counter-current extraction: basic principle, simple applications. **UNIT-II** TLC/column chromatography: Rf-value and itssignificance, elution, migration rate, column efficiency, column resolution, band broadening; ion-exchangeseparation: basic principle, exchange capacity. **UNIT-III** Elementary idea on GC and HPLC.
Jun	Special class,questions -answers discussions and evaluation.	Special class,questions -answers discussions and evaluation.	Special class, questions -answers discussions and evaluation.

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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (General) (2021-22) (July 2021-June 2022)

Month	SEM I(G)	SEM-III(G)	SEM-V
Jul	**MODULE-02** **(Chemical Periodicity)** **UNIT-I** Classification of elements on the basis of electronic configuration: general characteristics of s-, p-, d- and f-block elements.	NO CLASSES	**MODULE-01** **UNIT-I (Transition Elements(3d):** General group trends with special reference to electronic configuration, variable valency, colour, magnetic and catalytic properties, ability to form complexes and stability of various oxidation states (Latimer diagrams) for Mn, Fe and Cu.
Aug	**MODULE-02** **(Chemical Periodicity)** **UNIT-II** Positions of hydrogen and noble gases. Atomic and ionic radii, ionization potential, electron affinity, and electronegativity.	NO CLASSES	**MODULE-01** **UNIT-II (Lanthanoids and actinoids):** Electronic configurations, oxidation states, colour, magnetic properties, lanthanide contraction, separation of lanthanides (ion exchange method only).
Sept	**MODULE-02** **(Chemical Periodicity)** **UNIT-III** Periodic and group-wise variation of above properties in respect of s- and p- block elements.	NO CLASSES	**MODULE-04** **UNIT-I (Error analysis):** accuracy and precision of quantitative analysis, determinate, indeterminate, systematic and random errors; methods of least squares and standard deviations.
Oct	**MODULE-04 (Redox reactions)** **UNIT-I** Balancing of equations by oxidation number and ion-electron method oxidimetry and reductimetry.	NO CLASSES	**MODULE-05** **UNIT-I (Fertilizers):** manufacture of ammonia &ammonium salts,urea,superphosphate,biofertilizers. **UNIT-II (Cement):** Portland cement: composition and setting of cement, white cement.
Nov	Special classes+ doubt clearing+ discussions	NO CLASSES	Problem solving + discussions and evaluation.
Dec	Doubt clearing+ discussions + evaluation.	NO CLASSES	Problem solving + discussions and evaluation.
Jan	**SEM-II (G)**	**SEM-IV(G)**	**SEM-VI (G)**
	MODULE-5B UNIT-III Covalent bonding: VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, squareplanar, tetrahedral, trigonal bipyramidal and octahedral arrangements.	NO CLASSES	NO CLASSES
Feb	MODULE-5C UNIT-IV Concept of resonance and resonating structures in various inorganic and organic compounds.	NO CLASSES	NO CLASSES
Mar	MODULE-5D UNIT-V MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for s-s, s-p and p-p combinations of atomic orbitals, nonbonding combination of orbitals.	NO CLASSES	NO CLASSES
Apr	MODULE-05 UNIT-VI MO treatment of homonuclear diatomic molecules of 1st and 2nd periods. (including idea of s- p mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MOapproaches.	NO CLASSES	NO CLASSES
May	Special classes+ doubt clearing+ discussions.	NO CLASSES	NO CLASSES
Jun	Doubt clearing+ discussions + evaluation.	NO CLASSES	NO CLASSES

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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF DR. TRIJIT BHATTACHARYYA

Chemistry (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory:** **CC1: Bonding and Physcal properties: electronic displacement** **Practical** **CC1: Seperation of Binary mixture**	**6** **4**	**Theory** CC7: *Chemistry of alkenes* **Practical** CC7: *Qualitative Analysis of Single Solid Organic Compounds part 1*	**6** **2**	**Theory** **CC12:** Heterocyclic compounds Part I **Practical** **CC12:** TLC separation of a mixture containing 2/3 amino acids 2. TLC separation of a mixture of dyes (fluorescein and methylene blue)	**6** **2**
Aug	**Theory:** **CC1: General Treatment of reaction Mechanism** **Practical** **CC1: Seperation of Binary mixture**	**4** **2**	**Theory** CC7: : *Chemistry of alkynes* **Practical** CC: *Qualitative Analysis of Single Solid Organic Compounds Part 2*	**4** **2**	**Theory** **CC12:** Heterocyclic compounds Part II **Practical** **CC12:** Paper chromatographic separation of a mixture containing 2/3 amino acids	**6** **4**
Sept	**Theory:** **CC1: Stereochemistry: symmetry elements, point group and projection formula** **Practical** **CC1: Determination of boiling point of liquid**	**4** **2**	**Theory** CC7: *Carbonyl and Related Compounds Part1* **Practical** CC7: Melting point of the given compound Preparation of one derivative of the given sample Part1 ,	**6** **2**	.**Theory** **CC12:** Cyclic Stereochemistry **Practical** **CC12:** Column chromatographic separation of mixture of dyes	**8** **2**
Oct	**Theory:** **CC1: Stereochemistry: Optical activity and absolute configuration** **Practical** **CC1: Seperation of Binary mixture**	**7**	**Theory** CC7: *Carbonyl and Related Compounds Part II*	**6**	**Theory** **CC12:** Pericyclic reactions Part I **Practical** **CC12:**	**8** **2**

		2	**Practical** **CC7:** Preparation of one derivative of the given sample Part 2	2	Spectroscopic Analysis of Organic Compounds: Part 1	
Nov	**Theory:** **CC1: Reactive Intermediates** **Practical** **CC1: Practical Revision**	7 2	**Theory** CC7: *Organic Name reactions* **Practical** **CC7: Detection of unknown organi sample**	7 2	**Theory** CC12: Pericyclic reactions Part II **Practical** **CC12:** Spectroscopic Analysis of Organic Compounds: Part 2	4 4
Dec	**Theory:** **CC1: Organic chemistry** Special classes + doubt clearing+ discussions **Practical** **CC1: Organic Chemistry** Practice classes	4 2	**Theory** CC6: *Mechanism of hydrolysis of ester and related compounds* **Practical** **CC7: Revision**	3 1	**Theory** **CC12: Doubt clearing** **Practical** **CC12: Revision**	4 1
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory **CC3:** *Stereochemistry II* Concept of prostereoisomerism: **Practical** CC3: Nitration of acetanilide,	6 2	**Theory** CC10 *The Logic of Organic Synthesis:* Retrosynthetic analysis **Practical** CC10 1. Estimation of glucose by titration using Fehling's solution	5 2	**Theory** DSE-3: Twelve principles and goals of green Chemistry, **Practical** DSE-3: Benzoin condensation using Thiamine Hydrochloride as a catalyst	3 2
Feb	**Theory** CC3: Chirality arising out of stereoaxis	5	**Theory** **CC10:** *The Logic of Organic Synthesis:* Strategy of	5	**Theory** DSE-3: Green solvents Part1 **Practical**	3

	Practical **CC3:** Acetylation of phenols/aromatic amines	**2**	ring synthesis **Practical** **CC10:** 3. Estimation of aromatic amine (aniline) by bromination (Bromate-Bromide) method .	**2**	**DSE-3:** Photoreduction of benzophenone to benzopinacol in the presence of sunlight.	**4**
Mar	**Theory** **CC3:** Conformation. **Practical** **CC3: 1.** Side chain oxidation of toluene and p-nitrotoluene	**5** **2**	**Theory** **CC10:** *Organic Spectroscopy, IR spectra* **Practical** **CC10:** Estimation of formaldehyde (Formalin)	**4** **2**	**Theory** **DSE-3:** Green solvents Part2 **Practical** **DSE-3:** Preparation of propene by two methods can be studied, Other types of reactions, like addition, elimination, substitution and rearrangement should also be studied for the calculation of atom economy. .	**4** **2**
Apr	**Theory** **CC3:** Nucleophilic substitution reactions Part 1 **Practical** **CC3: 1.** Diazo coupling reactions of aromatic amines	**6** **2**	**Theory** **CC10:** *Organic Spectroscopy, NMR spectra, Part 1* **Practical** **CC10** 7. Estimation of urea (hypobromite method)	**6** **2**	**Theory** Rightfit pigment, **Practical** **DSE-3: Revision**	**3** **2**

May	**Theory** **CC3:** Nucleophilic substitution reactions Part 2 **Practical** **CC3: 1.** Selective reduction of m-dinitrobenzene to m-nitroaniline	**6** **2**	**Theory** **CC10:** *Organic Spectroscopy: NMR Spectra PartII* **Practical** **CC10: Revision**	**6** **2**	**Theory** **DSE-3:** Healthier Fats and oil by Green Chemistry, Ultrasound assisted reactions: Simmons-Smith reaction. **Practical** **DSE-3: Revision**	**4** **2**
June	**Theory** **CC3: Stereoselectivity and Stereospecificity,** doubt clearing **Practical** **CC3: Practical revision**	**2** **2**	**Theory** **CC10: Application Of Spectroscopyand Doubt clearing** **Practical** **CC10: Practical Revision**	**2** **1** **3**	**Theory** **CC14:** Microwave assisted reactions in water, . Future scope of green chemistry **Practical** **DSE-3: Revision** .	**6** **2**

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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF PROF TRIJIT BHATTACHARYYA
Chemistry (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul			**Theory:SEC-1:** Analytical clinical biochemistry: Carbohydrates Part 1	**4**		
Aug			**Theory:SEC-1:** Analytical clinical biochemistry: Carbohydrates part 2	**4**	:	
Sept			; **Theory:SEC-1:** Analytical clinical biochemistry:Proteins Part 1	**4**	.	
Oct			**Theory:SEC-1:** Analytical clinical biochemistry: Proteins Part 2	**3**		
Nov			**Theory:SEC-1:** Analytical clinical biochemistry: Structure of DNA and RNA	**5**		

Dec			**Theory:SEC-1:** Analytical clinical biochemistry: Enzymes	**2** **2**		
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
	Theory : **CC-1B (Theo) :** Comparative study of p-block elements B-Al-Ga-In-Tl	**3**	**Theory :** **CC-1D: Chromatographic methods**	**3**		
Feb	**Theory :** **CC-1B (Theo)** Comparative study of p-block elements C-Si-Ge-Sn-Pb	**4**	**Theory :** **CC-1D :** Volumetric analysis of $NaHCO_3$ and Na_2CO_3 by acidimetry	**4**		
Mar	**Theory :** **CC-1B (Theo)** Comparative study of p-block elements N-P-As-Sb-Bi	**4**	**Theory :** **CC-1D** *Environmental Chemistry*: The Atmosphere,Structure and composition .	**4**		
Apr	**Theory :** **CC-1B (Theo)** Comparative study		**Theory :** **CC-1D:** *Environmental Chemistry*: The	**2**		

	of p-block elements O-S-Se-Te	**4**	Atmosphere,Pollutants			
May	**Theory :** **CC-1B:** Comparative study of p-block elements F-Cl-Br-I	**3**	**Theory :** **CC-1D** *Environmental Chemistry*: The Atmosphere, problem of ozone layer depletion	**3**		
June	**Theory :** **CC-1B:** Special classes .	**2**	**Theory :** **CC-1D:** *Environmental Chemistry*: The Atmosphere pollution control measures	**1**		

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SURI VIDYASAGAR COLLEGE

Department of Chemistry

Teaching Plan of *Dr. Sandip Mondal* for the General Course (2021-2022)

Month	SEM-I	SEM-III	SEM-V
Jul	**Course Code-**CC-1A/GE-1 Atomic Structure: Bohr's theory for hydrogen atom (simple mathematical treatment), atomic spectra of hydrogen and Bohr's model, Sommerfeld's model. quantum numbers and their significance	**Course Code-**CC-1C/GE-3 *Ionic Equilibria*: Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.	**Course Code-**DSE-1A/GE-5 *Coordination Chemistry* a. Werner's coordination theory, Valence Bond Theory (VBT): Inner and outer orbital complexes of Cr, Fe, Co, Ni and Cu (coordination numbers 4 and 6).
Aug	**Course Code-**CC-1A/GE-1 Atomic Structure: Quantum numbers and their significance, Pauli's exclusion principle, Hund's rule, electronic configuration of many-electron atoms, Aufbau principle and its limitations	**Course Code-**CC-1C/GE-3 Ionization of weak acids and bases, pH scale, common ion effect Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts.	**Course Code-**DSE-1A/GE-5 Structural and stereoisomerism in complexes with coordination numbers 4 and 6. b. Drawbacks of VBT; IUPAC system of nomenclature.
Sept	**Course Code-**CC-1A/GE-1 Acids and bases: Brönsted–Lowry concept, conjugate acids and bases, relative strengths of acids and bases, effects of substituent and solvent, differentiating and levelling solvents.	**Course Code-**CC-1C/GE-3 Buffer solutions; Solubility and solubility product of sparingly soluble salts – applications of solubility product principle.	**Course Code-**DSE-1A/GE-5 Crystal field effect, octahedral symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields.
Oct	**Course Code-**CC-1A/GE-1 Acids and bases: Lewis acid-base concept, classification of Lewis acids and bases, Lux-Flood concept and solvent system concept.	Special class, questions -answers discussion and evaluation.	**Course Code-**DSE-1A/GE-5 Tetrahedral symmetry. Spectrochemical series. Comparison of CFSE for Oh and Td complexes, Tetragonal distortion of octahedral geometry. .
Nov	**Course Code-**CC-1A/GE-1 Acids and bases: Hard and soft acids and bases (HSAB concept), applications of HSAB process.	Special class, questions -answers discussion and evaluation.	**Course Code-**DSE-1A/GE-5 Jahn-Teller distortion, Square planar coordination
Dec	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.
	SEM-II	**SEM-IV**	**SEM-VI**
Jan	**Course Code-**CC-1B/GE-2 Ionic Bonding: General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds.	**Course Code-**CC-1D/GE-4 Volumetric analysis: primary and secondary standard substances; principles of acid-base, oxidation –reduction and complexometric titrations.	**NO CLASSES**
Feb	**Course Code-**CC-1B/GE-2 Statement of Born-Landé equation	**Course Code-**CC-1D/GE-4 Indicators: acid-base, redox and metal	**NO CLASSES**

	for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability	ion, principles of estimation of mixtures: NaHCO3 and Na2CO3 (by acidimetry)	
Mar	**Course Code-**CC-1B/GE-2 Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character.	**Course Code-**CC-1D/GE-4 Principles of estimation of mixtures: iron, copper, manganese and chromium (by redox titration); zinc, aluminum, calcium and magnesium (by complexometric EDTA titration).	**NO CLASSES**
Apr	**Course Code-**CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: i. B-Al-Ga-In-Tl ii. C-Si-Ge-Sn-Pb	**Course Code-**CC-1D/GE-4 Chromatography: Chromatographic methods of analysis: column chromatography and thin layer chromatography.	**NO CLASSES**
May	**Course Code-**CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: iii. N-P-As-Sb-Bi iv. O-S-Se-Te v. F-Cl-Br-I	**Course Code-**CC-1D/GE-4 Gravimetric analysis: solubility product and common ion effect; requirements of gravimetry; gravimetric estimation of chloride, sulphate, lead, barium, nickel, copper and zinc.	**NO CLASSES**
June	Special/Remedial class, questions -answer discussions and numerical problem solve	Special/Remedial class, questions -answer discussions and numerical problem solve	**NO CLASSES**

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SURI VIDYASAGAR COLLEGE
Department of Chemistry
Teaching Plan of *Dr. Sandip Mondal* for the Honours Course (2021-2022)

Month	SEM-I	SEM-III	SEM-V
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	Course Code **CC--6** Core Course – VI Nuclear Reactions: Artificial radioactivity, transmutation of elements, fission, fusion and spallation. Nuclear energy and power generation. Separation and uses of isotopes.	Course Code **CC-12** Core Course – XII Coordination Chemistry-II: VB description and its limitations. Elementary Crystal Field Theory: splitting of d^n configurations in octahedral, square planar and tetrahedral fields, crystal field stabilization energy (CFSE) in weak and strong fields; pairing energy. Spectrochemical series. Jahn- Teller distortion. Octahedral site stabilization energy (OSSE).
Aug		Course Code **CC--6** Core Course – VI Radio chemical methods: principles of determination of age of rocks and minerals, radio carbon dating, hazards of radiation and safety measures.	Course Code **CC-12** Core Course – XII Coordination Chemistry-II: Metal-ligand bonding (MO concept, elementary idea), sigma- and pi-bonding in octahedral complexes and their effects on the oxidation states of transitional metals (examples). Magnetism and Colour: Orbital and spin magnetic moments, spin only moments of dn ions and their correlation with effective magnetic moments, including orbital contribution; quenching of magnetic moment: super exchange and antiferromagnetic interactions
Sept		Code **CC--6** Core Course – VI Ionic bond: General characteristics, types of ions, size effects, radius ratio rule and its application and limitations. Packing of ions in crystals. Born-Landé equation with derivation and importance of Kapustinskii expression for lattice energy. Madelung constant.	Course Code **CC-12** Core Course – XII Coordination Chemistry-II: d-d transitions; L-S coupling; qualitative Orgel diagrams for 3d1 to 3d9 ions. Racah parameter. Selection rules for electronic spectral transitions; spectrochemical series of ligands; charge transfer spectra (elementary idea).
Oct		Course Code **CC--6** Core Course – VI Ionic bond: Born-Haber cycle and its application, Solvation energy. Solubility energetics of dissolution process.	Course Code-**DSE-2** Thermal methods of analysis Theory of thermogravimetry (TG), basic principle of instrumentation. Techniques for quantitative estimation of Ca and Mg from their mixture.
Nov		Course Code **CC--6** Core Course – VI Chemical Bonding-II: Molecular orbital concept of bonding (The approximations of the theory, Linear combination of atomic orbitals (LCAO)), sigma and pi-bonds and deltainteraction, multiple bonding.Course	Course Code-**DSE-2** Electroanalytical methods Classification of electroanalytical methods, basic principle of pH metric, potentiometric and conductometric titrations. Techniques used for the determination of equivalence points. Techniques used for the determination of pKa values.
Dec		Course Code **CC--6** Core Course – VI Chemical Bonding-II: Orbital designations:	Course Code-**DSE-2** Development of chromatograms: frontal, elution and displacement methods.

		gerade, ungerade, HOMO, LUMO. Orbital mixing,. MO diagrams of H2, Li2, Be2, B2, C2, N2, O2, F2, and their ions wherever possible; Heteronuclear molecular orbitals: CO, NO, NO+, CN-, HF, BeH2, CO2 and H2O. Bond properties: bond orders, bond lengths.	Qualitative and quantitative aspects of chromatographic methods of analysis: TLC, LC, GLC,and HPLC.
	SEM-II	**SEM-IV**	**SEM-VI**
Jan	Course Code **CC--3** Core Course – III Extra nuclear Structure of atom: Bohr's theory, its limitations and atomic spectrum of hydrogen atom; Sommerfeld's Theory. Wave mechanics: de Broglie equation, Heisenberg's Uncertainty Principle and its significance	Course Code **CC--9** Core Course – IX Coordination Chemistry-I : Double and complex salts. Werner's theory of coordination complexes, Classification of ligands, chelates, coordination numbers, IUPAC nomenclature of coordination complexes (up to two metal centers).	Course Code-**CC-13** Core Course – XIII Bioinorganic Chemistry: Elements of life: essential and beneficial elements, major, trace and ultratrace elements. Role of metal ions (specially Na+, K+, Mg2+, Ca2+, Fe3+/2+, Cu2+/+, and Zn2+)in biological systems. Metal ion transport across biological membrane Na+/K+-ion pump. Oxygen transport in biological systems: Haemoglobin, Myoglobin, Hemocyanine and Hemerythrin. Electron transfer proteins: Cytochromes and Ferredoxins.Course
Feb	Course Code **CC--3** Core Course – III Extra nuclear Structure of atom: Schrödinger's wave equation, significance of ψ and ψ2. Quantum numbers and their significance. Radial and angular wave functions for hydrogen atom. Radial and angular distribution curves. Shapes of s, p, d and f orbitals. Pauli's Exclusion Principle, Hund's rules and multiplicity, Exchange energy, Aufbau principle and its limitations, Ground state Term symbols of atoms and ions for atomic number upto 30	Course Code **CC--9** Core Course – IX Coordination Chemistry-I : Isomerism in coordination compounds, constitutional and stereo isomerism, Geometrical and optical isomerism in square planar and octahedral complexes.	Course Code-**CC-13** Core Course – XIII Hydrolytic enzymes: carbonate bicarbonate buffering system, carbonic anhydrase and carboxyanhydrase A. Biological nitrogen fixation, Photosynthesis: Photosystem-I and Photosystem-II. Toxic metal ions and their effects, chelation therapy, Pt and Au complexes as drugs (examples only), metal dependent diseases-
Mar	Course Code **CC--3** Core Course – III Redox Reactions and precipitation reactions: Ion-electron method of balancing equation of redox reaction. Elementary idea on standard redox potentials with sign conventions, Nernst equation, Influence of complex formation, precipitation and change of pH on redox potentials; formal potential. Feasibility of a redox titration, redox potential at the equivalence point, redox indicators.	Course Code **CC--9** Core Course – IX Inorganic Polymers: Types of inorganic polymers, comparison with organic polymers, synthesis, structural aspects and applications of silicones and siloxanes. Borazines, silicates and phosphazenes.	Course Code-**CC-13** Core Course – XIII Reaction Kinetics and Mechanism Introduction to inorganic reaction mechanisms. Substitution reactions in square planar complexes, Trans- effect and its application in complex synthesis, theories of trans effect, Mechanism of nucleophilic substitution in square planar complexes, Thermodynamic and Kinetic stability, Kinetics of octahedral substitution reactions, Ligand field effects and reaction rates, Mechanism of substitution in octahedral complexes.
Apr	Course Code **CC--3** Core Course – III Redox Reactions and precipitation reactions: Redox potential diagram (Latimer and Frost diagrams) of common elements and their applications. Disproportionation and comproportionation reactions (typical	Course Code **CC--9** Core Course – IX General Principles of Metallurgy:Chief modes of occurrence of metals based on standard electrode potentials. Ellingham diagrams for reduction of metal oxides using carbon and carbon monoxide as reducing agent.	Code-**CC-13** Core Course – XIII Organometallic Chemistry: Definition and classification of organometallic compounds on the basis of bond type. Concept of hapticity of organic ligands. 18-electron and 16-electron rules. Applications of 18-electron rule to metal

	examples)		carbonyls, nitrosyls, cyanides. General methods of preparation of mono and binuclear carbonyls of 3d series. Structures of mononuclear and binuclear carbonyls. π-acceptor properties of CO, synergic effect and use of IR data to explain extent of back bonding. Zeise's salt: Preparation, structure, evidences of synergic effect.
May	Course Code **CC--3** Core Course – III Redox Reactions and precipitation reactions: Solubility product principle, common ion effect and their applications to the precipitation and separation of common metallic ions as hydroxides, sulfides, phosphates, carbonates, sulfates and halides.	Course Code **CC--9** Core Course – IX General Principles of Metallurgy*:* Electrolytic Reduction, Hydrometallurgy. Methods of purification of metals: Electrolytic Kroll process, Parting process, van Arkel-de Boer process and Mond's process, Zone refining.	Course Code-**CC-13** Core Course – XIII Organometallic Chemistry: Ferrocene: Preparation and reactions (acetylation, alkylation, metallation, Mannich Condensation). Reactions of organometallic complexes: substitution, oxidative addition, reductive elimination and insertion reactions. Catalysis by Organometallic Compounds: Study of the following industrial processes 1. Alkene hydrogenation (Wilkinson's Catalyst) 2. Hydroformylation 3. Wacker Process 4. Synthetic gasoline (Fischer Tropsch reaction) 5. Ziegler-Natta catalysis for olefin polymerization.
June	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.

Head of the Department,

Department of Chemistry,

Suri Vidyasagar College

TEACHING PLAN- 2021-22 (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., 2021

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., 2021

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., 2021

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., 2021

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., 2021

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

Oct., 2021

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

Nov., 2021

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., 2021

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.

Semester - I

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., 2021

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., 2021

II. The Vedic Period

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

Nov., 2021

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., 2021

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., 2021

I. Sources for studying/Interpreting the Delhi Sultanate

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

Oct., 2021

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., 2021

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., 2021

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., 2021

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

Oct., 2021

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., 2021

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., 2021

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., 2021

I. Sources and Historiography

Persian literary culture; translations Literature in regional languages.

Oct., 2021

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., 2021

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., 2021

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., 2021

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

Oct., 2021

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., 2021

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

III. Museum Presentation and Exhibition

Dec., 2021

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., 2021

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., 2021

II. Regional Political Formations Bengal Vijaynagar and the Bahamani Kingdoms

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

Nov., 2021

Babar; Mughal- Afgan conflict, Akbar

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

Dec., 2021

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., 2021

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., 2021

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., 2021

III. Museum Presentation and Exhibition

Dec., 2021

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, 2021

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. 2021

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., 2021

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

Nov.,2021

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.,2021

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 2021

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

Sept. 2021

II. Importance of sources in History

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

Oct., 2021

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., 2021

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., 2021

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, 2021

I. The land environs and places

Historical Geography- ancient and medieval divisions

Sept., 2021

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., 2021

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., 2021

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., 2021

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, 2021

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. 2021

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., 2021

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., 2021

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., 2021

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., 2021

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., 2021

2. Renaissance& the Rise of Modern Europe

a. Origins; Reason

b. Renaissance humanism; rediscovery of Classics

c. Italian Renaissance and its Impact

Oct., 2021

3. European Reformation

a. Background, nature and impact

b. Martin Luther & Protestant Reformation

c. Reformation Movements and European States

Nov., 2021

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., 2021

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. 2021

I. Basic Concepts & Theories

a. Defining Gender

b. Patriarchy: Ideology and Practice

c. Relationship between Gender, Caste, Class Religion & Politics

Sept., 2021

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., 2021

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., 2021

IV. Gender, Law & Politics

a. Political Participation

b. Violence against Women – Preventive laws

Dec., 2021

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, 2021

I. Definition & Components

Sept., 2021

II. Historiographical Trends

Oct., 2021

III. Research Methodologies

Nov., 2021

IV. Definition of Historical Sites &Explorations

Dec., 2021

V. Field Work & Tools of research

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

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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., 2022

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., 2022

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., 2022

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., 2022

IV. Agrarian Structure and Social Change Land grants; Agricultural expansion; the feudal debate

Proliferation of castes; status of untouchables

May 2022

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

June 2022

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. 2022

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

Feb., 2022

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

March, 2022

III. Crises of the Roman Empire & transition to Participate

April, 2022

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

May, 2022

V. Religion and culture in medieval Europe

June 2022

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. 2022

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

Feb., 2022

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

March, 2022

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

April, 2022

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

May, 2022

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

June, 2022

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., 2022

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

Feb., 2022

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

Match, 2022

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

April, 2022

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

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

May, 2022

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., 2022

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., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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., 2022

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, 2022

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, 2022

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, 2022

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, 2022

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., 2022
I. Prehistoric and protohistoric art: Rock art; Harappan arts and crafts

Feb., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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., 2022

II. Land Settlements, peasant and Tribal revolts upto 1857 Permanent settlement and Rayatwari

Tribal and Peasant revolts- Wahabi, Fairazi and Santal

March, 2022

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

April, 2022

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, 2022

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, 2022

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

Feb., 2022

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, 2022

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

April, 2022

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

May, 2022

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., 2022

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., 2022

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, 2022

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, 2022

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, 2022

VI. United Nations Organization: its origin and functions

Sem – VI

History Honours Paper – CC- XIV (Core Course)

MAKING OF THE CONTEMPORARY WORLD (1946-2000)

6 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., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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

Feb., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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., 2022

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, 2022

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 2022

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, 2022

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., 2022

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., 2022

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, 2022

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, 2022

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, 2022

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., 2022

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

Feb., 2022

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, 2022

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, 2022

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, 2022

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

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

DEPARTMENT OF BOTANY
SURI VIDYASAGAR COLLEGE

TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA
(Associate Professor)
Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory** **CC1A/GE-1: Biodiversity** Unit 2: Algae- General characteristics **Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: *Lycopodium* (stem), *Selaginella* (stem)	2 2	**Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 1. Study of meristems through permanent slides and photographs.	2	NIL	NIL
Aug	**Theory** **CC1A/GE-1: Biodiversity** Unit 2: Algae- Ecology and distribution; Range of thallus organization and reproduction **Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genus: a. Pteridophytes: *Pteris* (leaflet).	2 1	**Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)	2	NIL	NIL
Sept	**Theory** **CC1A/GE-1: Biodiversity** Unit 2: Algae- Classification of algae **Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: b. Gymnosperms: *Cycas* leaflet, *Pinus* needle.	2 2	**Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs	2	NIL	NIL
Oct	**Theory** **CC1A/GE-1: Biodiversity** Unit 2: Algae-	2	**Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology**		NIL	NIL

	Morphology and life-cycles of the following: *Chlamydomonas, Oedogonium* **Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity** 3. Identification of all above mentioned genera in theoretical syllabus from permanent slides	1	8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).	2		
Nov	**Theory CC1A/GE-1: Biodiversity** Unit 2: Algae- Morphology and life-cycles of the following: *Chara, Fucus* **Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity** Revise Practical Class	2 1	**Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class	1	NIL	**NIL**
Dec	**Theory CC1A/GE-1: Biodiversity** Unit 2: Algae- Morphology and life-cycles of the following: *Polysiphonia*. Economic importance of algae **Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity** Revise Practical Class	2 1	**Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class	1	NIL	**NIL**
Jan	**Sem-II (G)** **Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Malvaceae, Rubiaceae,	**No. of Lecture** 2	**Sem-IV (G)** **Practical (Generic: Zoology Hons.) CC1D/GE-4Plant Physiology and Metabolism:** 5. To study the effect of light intensity and bicarbonate concentration on O_2 evolution in photosynthesis.	**No. of Lecture** 2	**Sem-VI (G)** **Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 4: Mutations and Chromosomal Aberrations Types of mutations, effects of physical & chemical mutagens. Numerical chromosomal changes: Euploidy, Polyploidy and Aneuploidy; Structural chromosomal changes: Deletions, Duplications, Inversions & Translocations. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 1. To study prokaryotic cells (bacteria), viruses, eukaryotic cells with the help of light and electron micrographs.	**No. of Lecture** 4 1
Feb	**Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant**		**Practical (Generic: Zoology Hons.) CC1D/GE-4Plant Physiology**		**Theory** **DSE-1B: Cell Biology,**	

	Ecology and Taxonomy 1. Study and identification of the following families: Caesalpiniaceae	**2**	**and Metabolism:** 6. Comparison of the rate of respiration in any two parts of a plant.	**2**	**Genetics and Molecular Biology** Unit 6: Cell Membrane and Cell Wall The functions of membranes; Models of membrane structure; The fluidity of membranes; Membrane proteins and their functions; Carbohydrates in the membrane; Faces of the membranes; Selective permeability of the membranes; Cell wall. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 3. To study the structure of plant cell through temporary mounts.	**6** **1**
Mar	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Ipomoea aquatica* stem,	**2**	**Practical (Generic: Zoology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	**1**	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 8: Genetic material DNA: Miescher to Watson and Crick- historic perspective, Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA, types of genetic material. DNA replication rokaryotes and e karyotes : bidirectional replication, semi– conservative, semi discontinious A priming, Ó theta mode of replication, replication of linear, ds- A, replicating the end of linear chromosome including replication enzymes. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 4. To study the structure of animal cells by temporary mounts-squamous epithelial cell	**6** **1**
Apr	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: Phyllode of *Acaccia auriculiformis*	**2**	**Practical (Generic: Zoology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	**1**	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 9: Transcription (Prokaryotes and Eukaryotes) Types of structures of RNA (mRNA, tRNA, rRNA), RNA polymerase- various types; Translation (Prokaryotes and eukaryotes), genetic code. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 6. Study of plasmolysis and deplasmolysis on *Rhoeo* leaf.	**6** **1**
May	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy**		**Practical (Generic: Zoology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	**1**	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 10: Regulation of gene	**6**

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

Sandipan Chatterjee

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Suri, Birbhum

TEACHING PLAN OF DR. HEMANTA SAHA

(Assistant Professor)

Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: *Nostoc, Oedogonium, Chara.*	3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 7: Embryo and endosperm-Endosperm types **Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 3. Stem: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: Helianthus (only Permanent slides).	2 2	NIL	NIL
Aug	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: *Ascobolus, Puccinia* (Uredosorus and teleutosorus).	3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 7: Embryo and endosperm-structure and functions **Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: Helianthus (only Permanent slides).	2 2	NIL	NIL
Sept	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: c. Bryophytes: *Riccia, Marchantia* and *Funaria.*	3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 7: Embryo and endosperm-Dicot and monocot embryo **Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 5. Leaf: Dicot and Monocot leaf (only Permanent slides)	2 2	NIL	NIL
Oct	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd	2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 7: Embryo and endosperm-Embryo-endosperm relationship. **Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem).	2 2	NIL	NIL
Nov	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** Revised Practical class	1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Generic: Zoology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).	1 2	NIL	NIL
Dec	**Practical(Generic: Zoology Hons.)** **CC1A/GE-1: Biodiversity** Revised Practical	1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Generic: Zoology**	1	NIL	NIL

	class		**Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** Revised Practical class	1		
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
Jan	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Papilionaceae, Apocynaceae,	4	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 1: Plant-water relations - Importance of water **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** 5. To study the effect of light intensity and bicarbonate concentration on O_2 evolution in photosynthesis. **Theory** **SEC2: Medicinal Botany** Unit 2: Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants	2 2 2	NIL	NIL
Feb	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Labiatae, Solanaceae.	4	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 1: Plant-water relations - water potential and its components **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** 6. Comparison of the rate of respiration in any two parts of a plant. **Theory** **SEC2: Medicinal Botany** Unit 2: Conservation of endangered and endemic medicinal plants. Red list criteria; in-situ conservation: Biosphere reserves,sacred groves	2 2 2	NIL	NIL
Mar	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).	2	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 1: Plant-water relations - Transpiration and its significance; **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class **Theory** **SEC2: Medicinal Botany** Unit 2: Conservation of endangered and endemic medicinal plants. National Parks; ex-situ conservation: Botanic Gardens, Ethnomedicinal plant Gardens.	2 1 2	NIL	NIL
Apr	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Nerium* leaf	2	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 1: Plant-water relations - Root pressure and guttation **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class **Theory** **SEC2: Medicinal Botany** Unit 2: Conservation of	2 1 2	NIL	NIL

			endangered and endemic medicinal plants. Propagation of Medicinal Plants: Objectives of the nursery, its classification.			
May	3. Ecological adaptations of some species: *Vanda* root	2	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 8: Plant growth regulators - Discovery and physiological roles of auxins, gibberellins **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class **Theory** **SEC2: Medicinal Botany** Doubt clearing class	**3** **1** **1**	NIL	**NIL**
June	**Practical (Generic: Zoology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** Revised Practical class	1	**Theory** **CC1D/GE-4 Plant Physiology and Metabolism:** Unit 8: Plant growth regulators - Discovery and physiological roles of cytokinins, ABA, ethylene. **Practical (Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class **Theory** **SEC2: Medicinal Botany** Doubt clearing class	**3** **1** **1**	NIL	**NIL**

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TEACHING PLAN OF DR. SANDIPAN CHATTERJEE

(Assistant Professor)

Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory** **CC1A/GE-1: Biodiversity** Unit 3: Fungi- Introduction- General characteristics, ecology and significance **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: *Nostoc, Oedogonium, Chara.*	2 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 3: Secondary Growth- Vascular cambium – structure and function, seasonal activity. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 1. Study of meristems through permanent slides and photographs. **Theory** **SEC1: Biofertilizers** Unit 1:General account about the microbes used as biofertilizer – *Rhizobium* – isolation,identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.	4 2 4	NIL	NIL
Aug	**Theory** **CC1A/GE-1: Biodiversity** Unit 3: Fungi- range of thallus organization, cell wall composition , nutrition, reproduction and classification; True Fungi- General characteristics, ecology and significance **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: *Ascobolus, Puccinia* (Uredosorus and teleutosorus).	2 2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 3: Secondary Growth- Secondary growth in root and stem, Wood (heartwood and sapwood). **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs) **Theory** **SEC1: Biofertilizers** Unit 2: *Azospirillum*:isolation and mass multiplication – carrier based inoculant, associativeeffect of different microorganisms.	4 2 4	NIL	NIL
Sept	**Theory** **CC1A/GE-1: Biodiversity** Unit 3: Fungi- life cycle of *Rhizopus* (Zygomycota) *Ascobolus*(Ascomycota) **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting,	2 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 4: Adaptive and protective system-Epidermis, cuticle, stomata; **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 3. Stem: Monocot: Zea mays; Dicot: Helianthus; Secondary: Helianthus (only Permanent slides). **Theory** **SEC1: Biofertilizers** Unit 2:. Azotobacter:	4 2 4	NIL	NIL

	description, drawing and identification of the following genera: c. Bryophytes: *Riccia, Marchantia* and *Funaria.*		classification, characteristics – cropresponse to Azotobacter inoculum, maintenance and mass multiplication.			
Oct	**Theory** **CC1A/GE-1: Biodiversity** Unit 3: Fungi- life cycle of Puccinia, Agaricus (Basidiomycota), Symbiotic Associations- Lichens: General account, reproduction and significance **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd	2 2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 4: Adaptive and protective system- General account of adaptations in xerophytes and hydrophytes. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides). **Theory** **SEC1: Biofertilizers** Unit 3:Cyanobacteria (blue green algae),AzollaandAnabaenaazollae association, nitrogenfixation, factors affecting growth, blue green algae and Azolla in rice cultivation.	4 2 4	NIL	NIL
Nov	**Theory** **CC1A/GE-1: Biodiversity** Unit 3: Fungi- Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** Revise Practical Class	3 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 5. Leaf: Dicot and Monocot leaf (only Permanent slides) **Theory** **SEC1: Biofertilizers** Doubt clearing class	1 2 1	NIL	NIL
Dec	**Theory** **CC1A/GE-1: Biodiversity** Doubt clearing class **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** Revise Practical Class	1 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class **Theory** **SEC1: Biofertilizers** Doubt clearing class	1 1 1	NIL	NIL
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
Jan	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Malvaceae,	2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 3: Translocation in phloem - Composition of phloem sap, girdling experiment **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 1. Determination of osmotic potential of plant cell sap by plasmolytic method.	3 2	NIL	NIL
Feb	**Practical (Generic:**		**Theory**		NIL	NIL

	Physiology & Microbiology Hons.) **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Rubiaceae,	2	**CC1D/GE-4Plant Physiology and Metabolism:** Unit 3: Translocation in phloem - Pressure flow model; Phloem loading and unloading. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.	3 2		
Mar	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Caesalpiniaceae	2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 6: Enzymes - Structure and properties **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.	2 2	NIL	NIL
Apr	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Ipomoea aquatica* stem,	2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 6: Enzymes - Mechanism of enzyme catalysis and enzyme inhibition. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	2 1	NIL	NIL
May	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: Phyllode of *Acacciaauriculiformis*	2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 7: Nitrogen metabolism - Biological nitrogen fixation **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	2 1	NIL	NIL
June	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** Revise Practical Class	1	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 7: Nitrogen metabolism - Nitrate and ammonia assimilation. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical Class	2 1	NIL	NIL

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Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory** **CC1A/GE-1: Biodiversity** Unit 7: Gymnosperms- General characteristics, classification. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: *Lycopodium* (stem), *Selaginella* (stem)	2 2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 6: Pollination and fertilization Pollination mechanisms and adaptations; **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem).	4 2	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 8: Introduction to biotechnology- History, Derinition, aim and scope, Contribution of Indian Scientist Unit 9: Plant tissue culture - Micropropagation **Practical** **DSE-1A: Economic Botany and Biotechnology** 2.Familiarization with basic equipments in tissue culture.	2 3 2
Aug	**Theory** **CC1A/GE-1: Biodiversity** Unit 7: Gymnosperms- morphology, anatomy and reproduction of *Cycas* **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genus: a. Pteridophytes: *Pteris* (leaflet).	2 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 6: Double fertilization; Seed-structure appendages and dispersal mechanisms. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs	4 2	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 9: Plant tissue culture - haploid production through androgenesis and gynogenesis; brief account of embryo& endosperm culture with their applications **Practical** **DSE-1A: Economic Botany and Biotechnology** 3.Study through photographs: Anther culture, somatic embryogenesis	5 2
Sept	**Theory** **CC1A/GE-1: Biodiversity** Unit 7: Gymnosperms- morphology, anatomy and reproduction of *Cycas* **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: b. Gymnosperms: *Cycas* leaflet, *Pinus* needle.	2 2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 8: Apomixis and polyembryony- Definition, types **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).	4 2	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 10: Recombinant DNA Technique - Enzymes in Recombinant DNA Technology, **Practical** **DSE-1A: Economic Botany and Biotechnology** 3.Study through photographs: endosperm and embryo culture; micropropagation.	5 2
Oct	**Theory** **CC1A/GE-1: Biodiversity** Unit 7: Gymnosperms- morphology, anatomy and reproduction of	2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 8: Apomixis and polyembryony- practical applications.	4	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 10: Recombinant DNA Technique - cloning vector, DNA library, PCR,	5

	Pinus. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** 3. Identification of all above mentioned genera in theoretical syllabus from permanent slides	1	**Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).	2	**Practical** **DSE-1A: Economic Botany and Biotechnology** 4.Basic Conception generation about molecular techniques: PCR, Blotting techniques	2
Nov	**Theory** **CC1A/GE-1: Biodiversity** morphology, anatomy and reproduction of *Pinus*. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** Revise Practical Class	2 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class	1 1	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 10: Recombinant DNA Technique - DNA Fingerprinting **Practical** **DSE-1A: Economic Botany and Biotechnology** 4.Basic Conception generation about molecular techniques: AGE and PAGE-Protocol	5 2
Dec	**Theory** **CC1A/GE-1: Biodiversity** Unit 7: Gymnosperms-Doubt clearing class **Practical (Generic: Physiology & Microbiology Hons.)** **CC1A/GE-1: Biodiversity** Revise Practical Class	1 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class	1 1	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 10: Recombinant DNA Technique - application of Recombinant DNA Technique **Practical** **DSE-1A: Economic Botany and Biotechnology** Revise Practical Class	3 1
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
Jan	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 6 Plant taxonomy - Identification, Classification, Nomenclature. **Practical(Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Papilionaceae, Apocynaceae,	2 2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 4. Demonstration of Hill reaction.	4 2	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 2: Cell as a unit of Life 20 The Cell Theory; . Prokaryotic and eukaryotic cells; Cell size and shape; Eukaryotic Cell components. Unit 3: Linkage and Crossing over Linkage: concept & history, complete & incomplete linkage, bridges experiment, coupling & repulsion, recombination frequency, linkage maps based on two and three factor crosses. Crossing over: concept and significance, cytological proof of crossing over. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 2. Study of the photomicrographs of cell organelles	2 4 2
Feb	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 7 Identification - Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and	4	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers,	4	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 5: Cell Organelles Mitochondria: Structure, marker enzymes, composition; Semiautonomous nature **Practical**	4

	multi-access **Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Labiatae, Solanaceae.	2	channels and pumps **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 5. To study the effect of light intensity and bicarbonate concentration on O_2 evolution in photosynthesis.	2	**DSE-1B: Cell Biology, Genetics and Molecular Biology** 5. Study of mitosis and meiosis (temporary mounts and permanent slides).	2
Mar	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 8 Taxonomic evidences - Taxonomic evidences from palynology, cytology, phytochemistry and molecular data. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).	3 2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 4: Photosynthesis - Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** 6. Comparison of the rate of respiration in any two parts of a plant	6 2	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 5: Cell Organelles Symbiont hypothesis; Proteins synthesized within mitochondria; mitochondrial DNA. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 8. Study the structure of nuclear pore complex by photograph (from Gerald Karp)Study of special chromosomes (polytene &lampbrush) either by slides or photographs.	4 2
Apr	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 8 Taxonomic evidences - Taxonomic evidences from palynology, cytology, phytochemistry and molecular data. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Nerium* leaf	3 1	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 4: Photosynthesis - Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical class	6 1	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 5: Cell Organelles Chloroplast Structure, marker enzymes, composition; semiautonomous nature, chloroplast DNA. ER, Golgi body & Lysosomes: Structures and roles. Peroxisomes and Glyoxisomes: Structures, composition, functions in animals and plants and biogenesis. **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 9. Study DNA packaging by micrographs.	4 2
May	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 9 Taxonomic hierarchy -Ranks, categories and taxonomic groups **Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Vanda* root	2 1	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 9: Plant response to light and temperature - Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and farred light responses on photomorphogenesis; Vernalization. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical class	3 1	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 5: Cell Organelles Nucleus: Nuclear Envelopestructure of nuclear pore complex; chromatin; molecular organization, DNA packaging in eukaryotes, euchromatin and heterochromatin, nucleolus and ribosome structure (brief). **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** 10. Preparation of the karyotype and ideogram from given photograph of somatic metaphase chromosome.	4 2

June	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Doubt clearing class **Practical (Generic: Physiology & Microbiology Hons.)** **CC1B/GE-2: Plant Ecology and Taxonomy** Revise Practical class	2 1	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 9: Plant response to light and temperature - Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and farred light responses on photomorphogenesis; Vernalization. **Practical (Generic: Physiology & Microbiology Hons.)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise Practical class	3 1	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 7: Cell Cycle Overview of Cell cycle, Mitosis and Meiosis; Molecular controls **Practical** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Revise Practical class	6 1

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TEACHING PLAN OF SHAMIM ALAM

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Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory** **CC1A/GE-1: Biodiversity** Unit 1: Microbes-Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage) **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: *Lycopodium* (stem), *Selaginella* (stem) and *Pteris* (leaflet)	3 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 5: Structural organization of flower Structure of anther and pollen **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 6. Adaptive anatomy: Xerophyte (Nerium leaf); Hydrophyte (Hydrilla stem). 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs 8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs). 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens). **Theory** **SEC1: Biofertilizers** Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrenceand distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.	2 4	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 1: Origin of Cultivated Plants-Concept of centres of origin, their importance with reference to Vavilov's work Unit 2: Cereals-Wheat - Origin, morphology, uses **Practical** **DSE-1A: Economic Botany and Biotechnology** 1.Study of economically important plants: Wheat\ through specimens and sections	4 2 1
Aug	**Theory** **CC1A/GE-1: Biodiversity** Unit 1: Lytic and lysogenic cycle, RNA virus (TMV); **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: b. Gymnosperms: *Cycas* leaflet, *Pinus* needle.	3 2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 5: Structure and types of ovules **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem). **Theory** **SEC1: Biofertilizers** Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrenceand distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.	2 2 4	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 3: Legumes - General account with special reference to Gram and soybean **Practical** **DSE-1A: Economic Botany and Biotechnology** 1.Study of economically important plants: Gram through specimens and sections	4 1
Sept	**Theory** **CC1A/GE-1: Biodiversity** Unit 1: Economic importance; Bacteria – Discovery, General characteristics and cell structure **Practical(Bio**	2	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 5: Types of embryo sacs **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 7. Types of ovules: anatropous, orthotropous, circinotropous,	2 2	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 4: Spices - General account with special reference to clove and black pepper (Botanical name, family, part used, morphology and uses)	6

	General) **CC1A/GE-1: Biodiversity** 3. Identification of all above mentioned genera in theoretical syllabus from permanent slides	**2**	amphitropous/ campylotropous – Through Permanent Slides/Photographs **Theory** **SEC1: Biofertilizers** Unit 5:Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods,types and method of vermicomposting – field Application.	**3**	**Practical** **DSE-1A: Economic Botany and Biotechnology** 1.Study of economically important plants: Black pepper through specimens and sections	**1**
Oct	**Theory** **CC1A/GE-1: Biodiversity** Unit 1: Microbes-Viruses – Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction); Economic importance. **Practical(Bio General)** **CC1A/GE-1: Biodiversity** Revise practical class	**2** **1**	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 5: Organization and ultrastructure of mature embryo sac. **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs). **Theory** **SEC1: Biofertilizers** Unit 5:Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods,types and method of vermicomposting – field Application.	**2** **2** **3**	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 6: Oils and Fats - General description with special reference to groundnut **Practical** **DSE-1A: Economic Botany and Biotechnology** 1.Study of economically important plants:, Clove through specimens and sections	**4** **1**
Nov	**Theory** **CC1A/GE-1: Biodiversity** Unit 6: Pteridophytes-General characteristics, classification, Early land plants (Rhynia). Classification (upto family), morphology, anatomy and reproduction of *Lycopodium*, **Practical(Bio General)** **CC1A/GE-1: Biodiversity** Revise practical class	**4** **1**	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens). **Theory** **SEC1: Biofertilizers** Doubt clearing class	**1** **2** **1**	**Theory** **DSE-1A: Economic Botany and Biotechnology** Unit 7: Fibre Yielding Plants- General description with special reference to Cotton (Botanical name, family, part used, morphology and uses) **Practical** **DSE-1A: Economic Botany and Biotechnology** 1.Study of economically important plants: Groundnut through specimens and sections	**4** **1**
Dec	**Theory** **CC1A/GE-1: Biodiversity** Unit 6: Pteridophytes-morphology, anatomy and reproduction of Selaginella, Equisetum and Pteris. (Developmental details not to be included). Heterospory, stelar evolution. economic importance of Pteridophytes. **Practical (Bio General)**	**4**	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** Revise practical class **Theory** **SEC1: Biofertilizers** Doubt clearing class	**1** **1** **1**	**Theory** **DSE-1A: Economic Botany and Biotechnology** Doubt clearing class **Practical** **DSE-1A: Economic Botany and Biotechnology** Revise practical class	**1** **1**

	CC1A/GE-1: Biodiversity Revise practical class	1				
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
Jan	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 5: Phytogeography - Principle biogeographical zones; Endemism **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Papilionaceae,	4 2	**Theory** **SEC2: Medicinal Botany** Unit 1: History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts	5	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 1: Techniques in Biology Principles of microscopy; Light Microscopy; Phase contrast microscopy	1
Feb	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 10 Botanical nomenclature - Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations. **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Apocynaceae,	6 2	**Theory** **SEC2: Medicinal Botany** Unit 1: Rasayana, plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. Unani: History, concept: Umoor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.	5	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 1: Fluorescence microscopy; Confocal microscopy; Sample Preparation for light microscopy	1
Mar	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 11 Classification - Types of classification- artificial, natural and phylogenetic. Classification Bentham and Hooker (upto series), Takhtajan. **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Labiatae	6 2	**Theory** **SEC2: Medicinal Botany** Unit 3: Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods tostudy ethnobotany; Applications of Ethnobotany:	5	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 1: Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM)	1
Apr	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 12 Biometrics,	4	**Theory** **SEC2: Medicinal Botany** Unit 3: National interacts, folk medicines of ethnobotany, ethnomedicine, ethnic	5	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Unit 1: Sample Preparation	1

	numerical taxonomy and cladistics - Characters; variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Solanaceae.	2	communities of India. Application of natural products to certain diseasesJaundice, cardiac, infertility, diabetics,Blood pressure and skin diseases.		for electron microscopy; X-ray diffraction analysis.	
May	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Doubt clearing class **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).	2 2	**Theory** **SEC2: Medicinal Botany** Doubt clearing class	1	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Doubt clearing class	1
June	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Doubt clearing class **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Nerium* leaf and *Vanda* root	2 2	**Theory** **SEC2: Medicinal Botany** Doubt clearing class	1	**Theory** **DSE-1B: Cell Biology, Genetics and Molecular Biology** Doubt clearing class	1

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TEACHING PLAN OF MS. MOUSUMI MUKHERJEE

(State Aided College Teacher)

Botany (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory** **CC1A/GE-1: Biodiversity** Unit 4: Introduction to Archegoniate- Unifying features of archegoniates, Transition to land habit, Alternation of generations. **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: *Nostoc, Oedogonium, Chara.*	2 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 1. Study of meristems through permanent slides and photographs.	4 2	NIL	NIL
Aug	**Theory** **CC1A/GE-1: Biodiversity** Unit 5: Bryophytes- General characteristics, adaptations to land habit, **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: *Ascobolus, Puccinia* (Uredosorus and teleutosorus).	2 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)	4 2	NIL	NIL
Sept	**Theory** **CC1A/GE-1: Biodiversity** Unit 5: Bryophytes- Classification, Range of thallus organization. **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: c. Bryophytes: *Riccia, Marchantia* and *Funaria.*	2 3	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Unit 2: Organs (4 Lectures) Structure of dicot and monocot root stem and leaf **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 3. Stem: Monocot: *Zea mays*; Dicot: Helianthus; Secondary: Helianthus (only Permanent slides).	4 2	NIL	NIL
Oct	**Theory** **CC1A/GE-1: Biodiversity**		**Theory** **CC1C/GE-3: Plant Anatomy and Embryology**		NIL	NIL

	Unit 5: Bryophytes-Classification (up to family), morphology, anatomy and reproduction of *Marchantia* **Practical(Bio General)** **CC1A/GE-1: Biodiversity** 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd	2 2	Doubt clearing class **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: Helianthus (only Permanent slides).	2 2		
Nov	**Theory** **CC1A/GE-1: Biodiversity** Unit 5: Bryophytes-morphology, anatomy and reproduction of *Funaria*. **Practical(Bio General)** **CC1A/GE-1: Biodiversity** Revise Practical Class	2 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** 5. Leaf: Dicot and Monocot leaf (only Permanent slides)	2 2	NIL	NIL
Dec	**Theory** **CC1A/GE-1: Biodiversity** Unit 5: Bryophytes-Ecology and economic importance of bryophytes with special mention of Sphagnum. **Practical(Bio General)** **CC1A/GE-1: Biodiversity** Revise Practical Class	2 1	**Theory** **CC1C/GE-3: Plant Anatomy and Embryology** Doubt clearing class **Practical (Bio General)** **CC1C/GE-3: Plant Anatomy and Embryology** Revise Practical Class	2 1	NIL	NIL
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
Jan	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 1: Introduction - Plant Ecology and Taxonomy **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Malvaceae	2 2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 5: Respiration - Glycolysis, anaerobic respiration **Practical (Generic- Zoology Hons.& Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** 1. Determination of osmotic potential of plant cell sap by plasmolytic method.	2 2	NIL	NIL
Feb	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 2: Ecological factors -Soil: Origin, formation,	5	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 5: Respiration - TCA cycle; Oxidative phosphorylation **Practical (Generic- Zoology Hons.& Bio General)**	2	NIL	NIL

	composition, soil profile. Water: States of water in the environment, **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Rubiaceae	2	**CC1D/GE-4Plant Physiology and Metabolism:** 2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.	2		
Mar	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 2: Ecological factors - precipitation types. Light and temperature: Variation Optimal and limiting factors. Adaptation of hydrophytes, halophytes and xerophytes. **CC1B/GE-2: Plant Ecology and Taxonomy** 1. Study and identification of the following families: Caesalpiniaceae	5 2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Unit 5: Respiration - Glyoxylate pathway **Practical (Generic- Zoology Hons.& Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** 3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.	2 2	NIL	NIL
Apr	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 3: Plant communities Characters; Ecotone and edge effect; Succession; Processes and types. cycling; Cycling of carbon, nitrogen and Phosphorous **Practical (Bio General)** **CC1B/GE-2: Plant Ecology and Taxonomy** 3. Ecological adaptations of some species: *Ipomoea aquatica* stem	6 2	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Doubt clearing class **Practical (Generic- Zoology Hons.& Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** 4. Demonstration of Hill reaction.	2 2	NIL	NIL
May	**Theory** **CC1B/GE-2: Plant Ecology and Taxonomy** Unit 4: Ecosystem - Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycling; Cycling of carbon, nitrogen and Phosphorous **Practical (Bio General)** **CC1B/GE-2: Plant**	4	**Theory** **CC1D/GE-4Plant Physiology and Metabolism:** Doubt clearing class **Practical (Generic- Zoology Hons.& Bio General)** **CC1D/GE-4Plant Physiology and Metabolism:** Revise practical class	1 1	NIL	NIL

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

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TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA
(Associate Professor)
Botany (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory** **CC1: Microbiology & Phycology** Unit 6: Chlorophyta and Charophyta **Practical** **CC2: Archegoniate** *Cycas*	 3 2	**Theory** **CC7: Economic Botany** Unit 7: Sources of oils and fats **Practical** **CC7: Economic Botany** 1. Cereals: Rice(habit sketch, study of paddy and grain, starch grains, micro-chemical tests). **Theory** **SEC1: Agricultural Botany** Unit: 1 Plant physiology a) Plant water relation, stomatal regulation, mineral nutrition, N_2 cycle.	 5 2 2	**Theory** **CC11: Plant Physiology** Unit 1: Plant-water relations Unit 2: Mineral nutrition **Practical** **CC11: Plant Physiology** Unit 1: Determination of osmotic potential of plant cell sap by plasmolytic method.	 10 8 2
Aug	**Theory** **CC1: Microbiology & Phycology** Unit 6: Chlorophyta and Charophyta **Practical** **CC2: Archegoniate** *Cycas*	 3 2	**Practical** **CC6: Plant systematics** 2. Field visit **Theory** **CC7: Economic Botany** Unit 7: Sources of oils and fats **Practical** **CC7: Economic Botany** 2. Legumes: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests). **Theory** **SEC1: Agricultural Botany** Unit: 1 Plant physiology a) Plant water relation, stomatal regulation, mineral nutrition, N_2 cycle.	 1 5 2 2	**Theory** **CC11: Plant Physiology** Unit 3: Nutrient Uptake Unit 4: Translocation in the phloem **Practical** **CC11: Plant Physiology** Unit 2: Determination of water potential of given tissue (potato tuber) by weight method. Unit 3: Study of the effect of Humidity and light on the rate of transpiration in excised twig/leaf.	 8 8 2 2
Sept	**Theory** **CC1: Microbiology & Phycology** Unit 6: Chlorophyta and Charophyta **Practical** **CC2: Archegoniate** *Pinus*	 4 2	**Theory** **CC7: Economic Botany** Unit 8: Natural Rubber **Practical** **CC7: Economic Botany** 3. Sources of sugars and starches: Sugarcane (habit sketch; cane juice-micro-chemical tests),Potato(habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests). 4. Spices: Black pepper, Fennel and Clove (Macromorphology). **Theory** **SEC1: Agricultural Botany** Unit: 1 Plant physiology b) Co_2 fixation mechanism in C2,C3,C4 and CAM plants. Transport of water and photosynthate.	 3 2 1 2	**Theory** **CC11: Plant Physiology** Unit 5: Plant growth regulators **Practical** **CC11: Plant Physiology** Unit 4: Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte and xerophyte.	 14 2
Oct	**Theory** **CC1: Microbiology & Phycology** Unit 7: Phaeophyta and Rhodophyta **Practical** **CC2: Archegoniate** *Pinus*	 4 2	**Theory** **CC7: Economic Botany** Unit 9: Drug-yielding plants **Practical** **CC7: Economic Botany** 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). **Theory** **SEC1: Agricultural Botany** Unit: 1 Plant physiology b) Co_2 fixation mechanism in	 4 2 2	**Theory** **CC12: Plant Metabolism** Unit 1: Concept of metabolism Unit 2: Carbon assimilation **Practical** **CC12: Plant Metabolism** Unit 1: Chemical separation of photosynthetic pigments.	 6 4 2

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

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

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Suri Vidyasagar College
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Department of Botany ★ Suri Vidyasagar College ★ Suri, Birbhum

TEACHING PLAN OF DR. HEMANTA SAHA

(Assistant Professor)

Botany (Honours) (2021-22) (July 2021 – June 2022)

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

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

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

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TEACHING PLAN OF DR. SANDIPAN CHATTERJEE

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Botany (Honours) (2021-22) (July 2021 – June 2022)

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

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

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

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

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

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

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TEACHING PLAN OF SHAMIM ALAM

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Botany (Honours) (2021-22) (July 2021 – June 2022)

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

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

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

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TEACHING PLAN OF MS. MOUSUMI MUKHERJEE

(State Aided College Teacher)

Botany (Honours) (2021-22) (July 2021 – June 2022)

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

		Lecture		Lecture		Lecture
	Theory **CC4: Morphology & Anatomy of Angiosperms** Unit 7: Leaves and Inflorescence **Practical** **CC4: Morphology & Anatomy of Angiosperms** 7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides)	 2 2	**Theory** **CC10:Molecular Biology** Unit 4: Central dogma and genetic code Unit 5: Transcription **Practical** **CC10:Molecular Biology** Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel &Conrat's experiments)	 2 2 2	**Theory** **DSE3: Plant Evolution and Biodiversity** Unit 4: Evolutionary theories **Practical** **DSE3: Plant Evolution and Biodiversity** Unit 4: Morphological and anatomical study of *Hydrilla andVcillisnaria*	 4 3
Feb	**Theory** **CC4: Morphology & Anatomy of Angiosperms** Unit 7: Leaves and Inflorescence **Practical** **CC4: Morphology & Anatomy of Angiosperms** 7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides)	 2 2	**Theory** **CC10:Molecular Biology** Unit 5: Transcription **Practical** **CC10:Molecular Biology** Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel &Conrat's experiments)	 4 2	**Theory** **DSE3: Plant Evolution and Biodiversity** Unit 4: Evolutionary theories **Practical** **DSE3: Plant Evolution and Biodiversity** Unit 4: Morphological and anatomical study of *Arum*.	 4 2
Mar	**Theory** **CC4: Morphology & Anatomy of Angiosperms** Unit 8: Flower, Fruit and Seed **Practical** **CC4: Morphology & Anatomy of Angiosperms** 8. Leaf: Different variations; C4 leaves (Kranz anatomy).	 2 2	**Theory** **CC10:Molecular Biology** Unit 5: Transcription **Practical** **CC10:Molecular Biology** Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.	 4 2	**Theory** **DSE3: Plant Evolution and Biodiversity** Unit 4: Evolutionary theories **Practical** **DSE3: Plant Evolution and Biodiversity** Unit 5: Morphological and anatomical study of plants of arid habitat (*Nerium*).	 4 2
Apr	**Theory** **CC4: Morphology & Anatomy of Angiosperms** Unit 8: Flower, Fruit and Seed **Practical** **CC4: Morphology & Anatomy of Angiosperms** 9. Cystolith, lithocysts and Raphides.	 2 2	**Theory** **CC10:Molecular Biology** Unit 5: Transcription **Practical** **CC10:Molecular Biology** Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.	 4 2	**Theory** **DSE3: Plant Evolution and Biodiversity** Unit 5: Plant diversity around the world **Practical** **DSE3: Plant Evolution and Biodiversity** Unit 5: Morphological and anatomical study of plants of arid habitat (*Pinus*).	 4 2
May	**Theory** **CC4: Morphology & Anatomy of Angiosperms** Unit 8: Flower, Fruit and Seed **Practical** **CC4: Morphology & Anatomy of Angiosperms** 10. Types of inflorescences, placentation and fruits.	 2 2	**Theory** **CC10:Molecular Biology** Unit 5: Transcription **Practical** **CC10:Molecular Biology** Revise Practical Class	 4 2	**Theory** **DSE3: Plant Evolution and Biodiversity** Unit 5: Plant diversity around the world **Practical** **DSE3: Plant Evolution and Biodiversity** Unit 6: Field visit and report preparation.	 4 2
June	**Theory** **CC4: Morphology**		**Theory** **CC10:Molecular Biology**		**Theory** **DSE3: Plant Evolution**	

	& Anatomy of Angiosperms Doubt clearing class **Practical** **CC4: Morphology & Anatomy of Angiosperms** Revise Practical Class	 2 1	Doubt clearing class **Practical** **CC10:Molecular Biology** Revise Practical Class	2 2	**and Biodiversity** Unit 5: Plant diversity around the world **Practical** **DSE3: Plant Evolution and Biodiversity** Revise Practical Class	4 2

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Teaching Plan of Dr. Tanmoy Mandal for B.Sc. Plant Protection (General Course)
(2021-22) (July 2021 – June 2022)

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

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

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

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

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

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DEPARTMENT OF PLANT PROTECTION

TEACHING PLAN OF DR. PAPIA MANDAL(RAHA)

PLANT PROTECTION (G) (2021-22) (JULY 2021-JUNE 2022)

MONTH	SEM-I (G)	NO OF LECTURE	SEM-III (GENERAL)	NO OF LECTURE	SEM-V(GENERAL)	NO OF LECTURE
JULY	Theory Unit-4 Classification Of Plant Disease ,Brief Account Of Bacteria Fungi ,algae Practical :- Identification Of Plant Disease	8	Theory Unit -1 Predisposition And Epidemiological Factors	4	Theory Dse-Ia Integrated Pest Management Unit-2 Tools & Strategies Of 1pm A) Cultural Control B) B)Physical Control C) Practical :- Study Of Sign & Symptoms Caused By Pest	4
AUGUST	Theory – Disease Triangle , Viroids ,Molecules Unit – 5 Dissemination Of Plant Pathogens, Soil Borne, Seed Borne , Air Borne, Water Borne Diseases. Practical –Preparation Of Fungal Slide	8	Theory – Unit 2 Symptoms ,Etiology, Disease Cycle & Management Of Major Plant Disease Of Rice Wheat Sugarcane Potato Tea Practical – Isolation Of Casual Organism	8	Theory – Unit 2 Mechanical Control Biological Control Practical :- Identification of plant diseases	9

MONTH	SEM-I (G)	NO OF LECTURE	SEM-III (GENERAL)	NO OF LECTURE	SEM-V (GENERAL)	NO OF LECTURE
SEPTEMBER	THEORY – UNIT 5 TRANSMISSION OF COMMON VIRUSES & THEIR COMMON VECTORS UNIT -6 SYMTOMS - MAJOR TYPES DUE TO FUNGI BACTERIA VIRUSES PRACTICAL :- INOCULATION TECHNIQUE	 8	UNIT-2 DISEASE OF MUSTARD TOMATO GROUND NUT JUTE BANANA UNIT-3 SEED PATHOLOGY SEED DETERIORATION PRACTICAL :- COLLECTION OF COMMON WEEDS	8 3	CHEMICAL CONTROL THEORY – GENETIC CONTROL LEGISLATIVE CONTROL	10 9
OCTOBER	UNIT-7 EPIDEMIOLOGY ENDEMIC,EPIDEMIC PANDEMIC SPORADIC DISEASES. PRACTICAL:- ISOLATION OF CASUAL ORGANISM	4	UNIT-3 SEED TRANSMISSION STRATEGY AND METHODS OF MANAGEMENT PRACTICAL :- STUDY TOUR	2	THEORY – APPROPRIATE IPM METHODS WITH EXAMPLE RICE FIELD WHEAT FIELD	8
NOVEMBER	UNIT – 7 MONOCYCLIC AND POLYCYCLIC DISEASE PYRAMID. STRATAGY OF MANAGEMENT (PANT) PRACTICAL - REPEAT	8	UNIT-4 POST HARVEST DISEASE AND PERISHABLES LOSS DISEASE OF FRUITS , VEGITABLE (ONE)	3	THEORY : APPROPRIATE IPM METHODS WITH EXAMPLE FROM POTATO FIELD MUSTARD FIELD FIELD SURVEY	8
DECEMBER	THEORY- UNIT : 7 STATEGY OF MANAGEMENT	6	UNIT -5 WEED CLASSIFICATION EXAMPLES AND MANAGEMENT	4	APPROPRIATE 1PM SUGARCANE FIELD PILSE FIELD PRACTICAL : STUDY TOUR	8

DEPARTMENT OF PLANT PROTECTION

TEACHING PLAN OF DR. PAPIA MANDAL (RAHA)

PLANT PROTECTION (G) (2021-22) (JULY 2021-JUNE 2022)

MONTH	SEM-II (G)	NO OF LECTURE	SEM-IV (GENERAL)	NO OF LECTURE	SEM-VI(GENERAL)	NO OF LECTURE
JANUARY	THEORY – UNIT 1: FORECASTING – DEFINATION AND NEED UNIT : 4 FORECASTING OF PLANT DISEASE FORECASTING SERVICE METHODS OF FORECASTING	2 4 2	THEORY – UNIT 1 : PRE INFECTIONAL DEFENSE MECHANISM	4 4	DSE BIOTECHNOLOGY PLANT UNIT 1 : INTRODUCTION TO PLANT BIOTECHNOLOGY AND PLANT PROTECTION, CROP PROTECTION AND FOOD APPLICATION OF PLANT BIOTECHNOLOGY IN PLANT PROTECTION PRACTICAL : DEMOSTRATION OF STOMATAL CHANGE DURING INFECTION	8
FEBRUARY	THEORY –4 METHODS OF FORECASTING UNIT 5 : METHODS OF MANAGEMENT LEGISATION PHYSICAL CONTROL PRACTICALS : IDENTIFICATION OF COMMON FUNGI AND DESEASES OF MAJOR CROPS	4 6	THEORY : UNIT 3 : STRUCTURAL DEFENCE : DEVELOPMENT OF CORK LAYER DEPOSITION OF GUMS FORMATION OF PYLOSES,FORMATION OF ABSCISSION LAYER PRACTICAL :	8	Theory – Unit 2 PLANT GENETIC ENGINEERING FOR RESISTANCE TO PLANT PATHOGEN. GENERAL CONCEPT OF GENETIC ENGINEERING AND TISSUE CULTURE FOR THE MANAGEMENT OF DISEASE RESISTANCE CROPS.	8

			ESTIMATION OF TOTAL PHENOL FROM INFECTED PLANT TISSUE			
MONTH	**SEM-II (G)**	**NO OF LECTURE**	**SEM-IV (GENERAL)**	**NO OF LECTURE**	**SEM-VI (GENERAL)**	**NO OF LECTURE**
MARCH	THEORY – UNIT 5 : CULTURAL CONTROL BIOLOGICAL COTROL PRACTIAL FIELD SURVEY	3 5	THEORY – UNIT 3 : CELLULAR DEFENSE MECHANISM DEFENSE THROUGH HYPER SENSITIVITY PRACTICAL : ESTIMATE OF TOTAL PHENOL FROM HEALTHY PLANT	8	UNIT 4 : DETECTION TOOLS FOR PLANT INFECTION APPLICATION OF BIOTECHNOLOGICAL TOOLS FOR DETECTING PLANT INFECTION (NUCLIC ACID ISOLATION AND PCR BASED TECHNIQUES, in Situ HYBRIDIZATION, ELIZA TECHNIQUES)	10
APRIL	Theory Unit- 5 CHEMICAL CONTROL GENETIC RESISTANCE PRACTICAL : STUDY TOUR	5 5	THEORY – 4 ROLE OF PHYTOLEXINS IN DEFENSE MECHANISM PRACTICAL : STUDY OF STRUCTURAL DEFENSE IN PLANTS	6	THEORY : UNIT-6 CELL LINES, GENETIC ENGINEERING IN BACULO VIRUS, Bt AND ENTOMOPATHOGNIC FUNGI.	4
MAY	THEORY – UNIT 6 INTEGRATED PEST MANAGEMENT (I-PM) DEFINITION,GENESIS APPROPRIATE I PM METHODS IN RICE ,WHEAT , POTATO FIELDS	5 4	THEORY : UNIT 5 BASIC IDEA ABOUT TOXINS OF PATHOGENS PRACTICAL : STUDY OF STRUCTURAL DEFENSES IN PLANTS	4	UNIT 6 : TRANSGENIC PLANTS FOR PEST RESISTANCE UNIT 7 :QUARANTINE LAW, BIOSAFETY	8

	PRACTICAL :REPEAT		CORK LAYER			
JUNE	THEORY- UNIT 6 : INTEGRATED PEST MANAGEMENT (I PM) APPROPRIATE I PM METHODS IN MUSTARD ,SUGARCANE AND PULSES PRACTICAL:- REAPT	6	THEORY – ALL SYLLUBUS	6	UNIT 7 : USE OF TISSUE CULTURE TECHNIQUE IN PLANT PROTECTION FOR RESISTANCE – GENETIC MANIPULATION	8

Papia Mandal (Raha).

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Mr. DASARATH MURMU
Philosophy (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory:** **CC-1:** **Outlines of Indian Philosophy—I** Unit 1: **Detailed Introduction:** (a) General Features of Indian Philosophy	**8**	**Theory** **CC- 6:** **Western Ethics -** Unit 1: **Introduction & Nature and Scope of Ethics**	**15**	**Theory** **CC- 11:** Unit 1: Introduction & **Nature and Scope of Social Philosophy and Political Philosophy**	**17**
Aug	**Theory:** **CC-1:** Unit 2: (b) Spirit of Indian Philosophy, (c) Basic Concepts of the Vedic and the Upaniṣadic World-Views	**8**	**Theory** **CC- 6**: Unit 2: **Nature of Morality & Moral and Non-moral actions & Object of Moral Judgment:** Motive and Intention	**14**	**Theory** **CC- 11:** Unit 2: **Basic Concepts:** Society, Social Group, Community, Association, Institution, Customs, Folkways and Mores	**15**
Sept	**Theory:** **CC-1:** Unit 3: **Cārvāka:** (a) Perception as the only Source of Knowledge, Refutation of Inference and Testimony as Sources of Knowledge	**8**	**Theory** **CC- 6:** Unit 3: **Postulates of Morality & The Development of Morality**	**13**	**Theory** **CC- 11:** Unit 3: **Social Class and Caste:** Class Attitude and Class Consciousness, Marxian Theory of Class	**16**
Oct	**Theory:** **CC-1:** Unit 4: (b) jaḍavāda and dehātmavāda	**7**	**Theory** **CC- 6:** Unit 4: **Normative Theories :** Consequentialism (Teleology): (a) Hedonism, (b) Act Utilitarianism and Rule Utilitarianism; (c) Act Deontology and Rule Deontology, (d) Kant's Moral Theory	**11**	**Theory** **CC- 11:** Unit 4: B. R. Ambedkar's Criticism of Caste System, Dalit Movement.	**14**
Nov	**Theory:** **CC-1:** Unit 5: (b) Vaiśeṣika Metaphysics**:** Saptapadārtha (Seven Ontological Categories)	**8**	**Theory** **CC- 6:** Unit 5: **Theories of Punishment:** Retributive, Deterrent and Reformative Theory	**13**	**Theory** **CC- 11:** Unit 5: **Political Ideals:** i) Democracy – its different forms ii) Socialism – Utopian and Scientific	**17**

Dec	**Theory:** **CC-1:** Unit 6: (b) Paramāṇuvāda	**7**	**Theory** **CC- 6:** Unit 6: **Issues in Applied Ethics :** (a) Suicide, (b) Euthanasia, (c) Gender Equality, (d) Affluence and Morality	**15**	**Theory** **CC- 11:** Unit 6: **Political Ideals:** i) Nation, Nationalism and Internationalism (Rabindranath) ii) Radical Humanism (Manabendranath Roy) .	**16**
	Sem-II (H)		**Sem-IV (H)**		**Sem-VI (H)**	
Jan	**Theory** **CC- 3: Outlines of Indian Philosophy-II** Unit 1: **Sāṁkhya :** (i) satkāryavāda, (ii) pañcaviṁśati tattva and tattvapariṇāma, (iii) prakṛti and its guṇa-s, (iv) Notion of puruṣa, bahupurusavāda	**3**	**Theory** **SEC- 2: Philosophy of Human Rights** Unit 1: Introduction & **Definition and Nature of Human Rights**	**5**	**Theory** **CC- 14: Philosophy in the Twentieth Century: Western** Unit 1: **G. E. Moore:** A Defence of Common Sense	**6**
Feb	**Theory** **CC- 3:** Unit 4: **Advaita Ve dānta:** (i) vivartavāda,, (ii) māyā,	**8**	**SEC- 2:** Unit 2: **The Idea of Human Rights:** Its Origins and Historical Developments during Ancient period, Modern Period and Contemporary Period .	**11**	**Theory** **CC 14:** Unit 2: **B. Russell:** Knowledge by Acquaintance and Knowledge by Description	**14**
Mar	**Theory** **CC 3: Outlines of Indian Philosophy—II** Unit 4: **Advaita Ve dānta:** (iii) Brahman, jīva and jagat	**8**	**SEC- 2:** Unit 3: **The Idea of Natural Law and Natural Rights:** Thomas Hobbes and John Locke	**10**	**Theory** **CC 14:** Unit 3: **L. Wittgenstein:** Theory of Meaning	**16**
Apr	**Theory** **CC 3: Outlines of Indian Philosophy—II** Unit 5: **Viśiṣṭādvaita Vedānta:** (i) Distinction between advaitavāda and viśiṣṭādvaitavāda	**9**	**Theory** **SEC- 2**: Unit 4: **The Idea of Natural Law and Natural Rights:** John Locke	**14**	**Theory** **CC 14:** Unit 4: **A. J. Ayer:** Verifiability Theory of Meaning	**17**

May	**Theory** **CC 3: Outlines of Indian Philosophy—II** Unit 5: **Viśiṣṭādvaita Vedānta:** (ii) Nature of īśvara, jīva and jagat	**7**	**Theory** **SEC- 2:** Unit 5: **Natural Right, Fundamental Right and Human Right**	**12**	**Theory** CC 14: Unit 5: **M. Heidegger:** (a)Being in the World : Existenz, Facticity and Fallenness and (b)Authenticity and Inauthenticity	**15**
June	**Theory** **CC 3: Outlines of Indian Philosophy—II** Unit 5: **Viśiṣṭādvaita Vedānta:** (iii) Criticism of Saṁkara's Doctrine of māyā	**8**	**Theory** **SEC- 2:** Unit 6: **Preamble, Fundamental Rights and Duties (Indian Constitution)**	**11**	**Theory** **CC 14:** Unit 6: **J. P. Sartre:** (a) Nothingness and (b) Freedom	**14**

Head of the Department,
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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Mr. DASARATH MURMU
Philosophy (G) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** CC- 1**:** Indian Philosophy Unit 1: Introduction: General Features of Indian Philosophy	**4**			**Theory** GE**:** Indian Philosophy Unit 1: Introduction: General Features of Indian Philosophy	**6**
Aug	**Theory:** **CC-1:** Unit 2: *Cārvāka*: (a) *pratyakṣa* (perception) as the only Source of Knowledge	**4**			**Theory** **GE:** Unit 2: *Cārvāka*: (a) *pratyakṣa* (perception) as the only Source of Knowledge, (b) Refutation of *anumāna* (inference) and *śabda* (testimony) as Sources of Knowledge	**5**
Sept	**Theory:** **CC-1:** Unit 2: (b) Refutation of *anumāna* (inference) and *śabda* (testimony) as Sources of Knowledge	**4**			.**Theory** **GE:** Unit 2: (c) *jaḍavāda* and *dehātmavāda*	**6**
Oct	**Theory:** **CC-1:** Unit 2: (c) *jaḍavāda* and *dehātmavāda*	**2**			**Theory** **GE:** Unit 6: *Sāṁkhya*: *Satkāryavāda* (Theory of Causality)	**3**
Nov	**Theory:** **CC-1:** Unit 6: *Sāṁkhya*: (a) *satkāryavāda* (Theory of Causality) (b) *pariṇāmavāda* (Theory of Evolution)	**4**			**Theory** **GE:** Unit 9: *Advaita Vedānta*: *Brahman*	**6**

Dec	**Theory:** **CC-1:** Unit 8: *Advaita Vedānta*: *Brahman*, *jīva* and *jagat*	**3**			**Theory** **GE:** Unit 9: *jīva* and *jagat*.	**5**
Jan	**Sem-II (G)** **Theory** **CC:** Western Philosophy Unit 1: Metaphysics: Nature of Metaphysics	**4**	**Sem-IV (G)** **Theory** **SEC- 2: Philosophy of Human Rights** Unit 1: Introduction & **Definition and Nature of Human Rights**	**5**	**Sem-VI (G)** **Theory** **SEC:** Ethics in Practice Unit 1: Morality and Ethics	**6**
Feb	**Theory** **CC:** Unit 1: Elimination of Metaphysics	**4**	**SEC- 2:** Unit 2: **The Idea of Human Rights:** Its Origins and Historical Developments during Ancient period, Modern Period and Contemporary Period .	**5**	**Theory** **SEC:** Unit 2: Motive and Intention	**6**
Mar	**Theory** **CC:** Unit 2: Realism: Naïve Realism Scientific Realism, Representative Realism	**4**	**SEC- 2:** Unit 3: **The Idea of Natural Law and Natural Rights:** Thomas Hobbes and John Locke	**5**	**Theory** **SEC:** Unit 3: Moral Action	**6**

Apr	**Theory** **CC:** **Unit: 2** Realism: Naïve Realism, Scientific Realism, Representative Realism	**4**	**Theory** **SEC- 2**: Unit 4: **The Idea of Natural Law and Natural Rights:** John Locke	**5**	**Theory** **SEC:** Unit 3: Moral Judgment	**6**
May	**Theory** **CC:** Unit 3: Idealism: Subjective Idealism, Objective Idealism	**4**	**Theory** **SEC- 2:** Unit 5: **Natural Right, Fundamental Right and Human Right**	**5**	**Theory** SEC: Unit 4: Normative Theories: (a) Ethical Egoism & Utilitarianism	**6**
June	**Theory** **CC:** Unit 4: Critical Theory of Kant	**4**	**Theory** **SEC- 2:** Unit 6: **Preamble, Fundamental Rights and Duties (Indian Constitution)**	**5**	**Theory** **SEC:** Unit 4: (b) Kant's Moral Theory	**6**

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Mr. SUJIT MONDAL

Philosophy (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory:** **CC-2:** Outlines of Western Philosophy—I Unit1: **Introduction to The Pre-Socratic Period:** (a) Ionian School.	**10**	**Theory** **SEC-1:** Philosophy in Practice Unit1: **Common and Differentiating Characteristics of Philosophy and *darśana.***	**6**	**Theory** **DSE-2:** B. Russell: The Problems of Philosophy Chapter 1: Appearance and Reality.	**18**
Aug	**Theory:** **CC-2:** Unit 1: (b) Parmenides. (c) Heraclitus and	**10**	**Theory** **SEC-1**: Unit 2: **Nature of Inquiry in Philosophy and *darśana* .**	**6**	**Theory** **DSE-2:** Chapter 2: The Existence of Matter.	**18**
Sept	**Theory:** **CC-2:** Unit 1: (d) Zeno (Paradoxes) Unit 2: **Plato:** (a) Theory of Knowledge	**10**	**Theory** **SEC-1:** Unit 3: **Outlines of the types of Inquiry in Philosophy and *darśana*:**(a) Epistemic Inquiry in Philosophy and darśana, (b) Metaphysical Inquiry in Philosophy and darśana,(c) Axiological Inquiry in Philosophy and darśana.	**7**	.**Theory** **DSE-2:** Chapter 3: The Nature of Matter.	**17**
Oct	**Theory:** **CC-2:** Unit 2: **Plato:** (b) Theory of Ideas. Unit 3: **Aristotle:** (a) Refutation of Plato's Theory of Ideas.	**9**	**Theory** **SEC-1:** Unit 4: **A few Model World-views and corresponding paths leading to Perfection:** (a) Plato's view, (b) Kant's view.	**6**	**Theory** **DSE-2:** Chapter 4: Idealism.	**18**
Nov	**Theory:** **CC-2:** Unit 3: **Aristotle:** (b) Theory of Substance (c) Form and Matter	**7**	**Theory** **SEC-1:** Unit 4:(c) Sāṁkhya view and (d) Advaita Vedānta View.	**7**	**Theory** **DSE-2:** Chapter 5: Knowledge by Acquaintance and Knowledge by Description.	**16**

Dec	**Theory:** **CC-2:** Unit 3:(d) Theory of Causation.	**8**	**Theory** **SEC-1:** Unit 5: **Methods of Philosophical Discourse (*kathā*) :** (a) vāda, (b) jalpa, (c) vitaṇḍā, (d) chhala, (e) jāti and (f) nigrahasthāna	**7**	**Theory** **DSE-2:** Chapter 6: On Induction .	**18**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory **CC4: Outlines of Western Philosophy—II** Unit 4: Introduction: **Kant:** (a) Idea of the Critical Philosophy,	**10**	**Theory** **CC10: Philosophy of Religion** Unit 1: Introduction: **Nature and Scope of Philosophy of Religion:** (a) Religion, Dharma, Dhamma and (b) Philosophy of Religion, Comparative Religion and Theology	**18**	**Theory** **CC13:** Philosophy in the Twentieth Century: Indian Unit 1: **Rabindranath Tagore:** (a) Nature of Man : The Finite Aspect of Man, the Infinite Aspect of Man, (b) Nature of Religion, and (c) Surplus in Man	**17**
Feb	**Theory** **CC4: Outlines of Western Philosophy—II** Unit 4: (b) Possibility of Metaphysics, (c) Kant's Copernican Revolution in Philosophy.	**9**	**Theory** **CC10:** Unit 2: **Origin and Development of Religion :** Anthropological and Freudien Theories .	**16**	**Theory** **CC13:** Unit 2: **Swami Vivekananda:** (a)Practical Vedānta, (b) Universal Religion and (c) Yoga	**17**
Mar	**Theory** **CC4: Outlines of Western Philosophy—II** Unit 4: (d) Role of Sensibility and Understanding in the Origin of Knowledge.	**10**	**Theory** **CC10:** Unit 3: **Fundamental Features of Major Religions:** Hinduism, Christianity, Islam, Buddhism: Basic Tenets,	**17**	**Theory** **CC13:** Unit 3: **Sri Aurobindo:** (a)Nature of Reality, (b) Human Evolution–its different stages and (c) Integral Yoga	**18**

			Bondage and Liberation			
Apr	**Theory** **CC4: Outlines of Western Philosophy—II** Unit 4: (e) Possibility of Synthetic A-priori Judgments and (f) Space and Time	**9**	**Theory** **CC10:** Unit 4: **Arguments against the Existence of God**: Sociological Arguments, Freudian Arguments, Buddhist Arguments.	**18**	**Theory** **CC13:** Unit 4: **S. Radhakrishnan:** (a)Nature of Man, (b) Nature of Religious Experience and (c) Nature of Intuitive Apprehension	**17**
May	**Theory** **CC4: Outlines of Western Philosophy—II** Unit 5: (a) Dialectical Method	**7**	**Theory** **CC10:** Unit 5: **Arguments for the Existence of God** (Indian and Western): Yoga Arguments, Nyāya Arguments, Cosmological Arguments, Teleological Arguments, Ontological Arguments.	**16**	**Theory** CC13: Unit 5: **Md. Iqbal:** (a)Nature of the Self, (b) Nature of the World and (c) Nature of God	**18**
June	**Theory** **CC4: Outlines of Western Philosophy—II** Unit 5: (b) The Absolute	**8**	**Theory** **CC10:** Unit 6: **The Problem of Evil.** Unit 7: **Monotheism, Polytheism** and **Henotheism.**	**16**	**Theory** **CC13:** Unit 6: **Mahatma Gandhi:** (a) God and Truth and (b) Ahimsa	**18**

Head of the Department,
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Suri Vidyasagar College

DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF SUJIT MONDAL
Philosophy (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** **CC-1A/GE-1:** **Indian Philosophy** Unit5/5: **Nyāya** (a) pramāṇa: pratyakṣa (perception),	**5**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-1: ***1.*** **Common and Differentiating Characteristics of Philosophy And *darśana***	**4**	**Theory** **DSE- 1A:** Philosophy of Religion Unit-1: 1. **Nature and Scope of Philosophy ofReligion:** (a) Religion, Dharma, Dhamma, (b)Philosophy of Religion, Comparative ReligionandTheology	**10**
Aug	**Theory:** **CC-1A:** Unit 5/5: **Nyāya–** (a) pramāṇa: anumāna (inference),	**4**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-2: ***2.*** **Nature of Inquiry in Philosophy and *darśana***	**4**	**Theory** **DSE- 1A:** Philosophy of Religion Unit-2: 2. **Anthropological and FreudienTheories concerning the OriginandDevelopment** ofReligion	**13**
Sept	**Theory:** **CC-1A:** Unit 5: **Nyāya** pramāṇa: upamāna (comparison) andśabda (testimony)	**4**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-3: **3. OutlinesoftheTypesofInquiryinPhilosophyand *darśana*:** (a)EpistemicInquiryinPhilosophy and darśana and (b) Metaphysical Inquiry in Philosophy and darśana	5	.**Theory** **DSE- 1A:** Philosophy of Religion Unit-3: 3. **FundamentalFeaturesof MajorReligions:**Hinduism,Christianity,Islam:Basic Tenets,Bondageand Liberation	**14**
Oct	**Theory:** **CC-1A:** Unit 5/5: **Vaiśeṣika:** (b)sapta padārtha (Seven Categories) DRAVYA,GU	**3**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-4: **4. AfewModelWorld-viewsandCorrespondingPathsLeadingtoPerfection:**(a)Plato'sview,	**4**	**Theory** **DSE- 1A:** Philosophy of Religion Unit-4: 4. **Arguments for the Existence of God:** (Indian and Western):	**10**

	NA, KARMA,		(b) Kant's view		Yoga Arguments, Cosmological Arguments, TeleologicalArguments,OntologicalArguments	
Nov	**Theory:** **CC-1A:** Unit 5/5: **Vaiśeṣika:** (b)sapta padārtha (Seven Categories) SAMANYA, VISESA, SAMAVAYA	**4**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-4: **4. AfewModelWorld-viewsandCorrespondingPathsLeadingtoPerfection:** (c) Sāṁkhya view and (d) Advaita Vedānta View	**4**	**Theory** **DSE- 1A:** Philosophy of Religion Unit-5: 5. **Argumentsagainst theExistenceofGod**:SociologicalArguments,FreudianArguments	**12**
Dec	**Theory:** **CC-1A:** **Vaiśeṣika:** (b)sapta padārtha (Seven Categories) AVAVA	**3**	**Theory** **SEC- 1:** **Philosophy in Practice** Unit-5: **5. MethodsofPhilosophicalDisCourse (*kathā*):** (a)vāda, (b)jalpa, (c)vitaṇḍā,(d)chhala,(e)jātiand (f) nigrahasthāna	4	**Theory** **DSE- 1A:** Philosophy of Religion Unit-6: **6. Monotheism, Polytheism, Henotheism**	**8**
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
		7	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-1:** 1. **RabindranathTagore:**(a)NatureofMan:TheFiniteAspectofMan, theInfiniteAspectofMan,(b)Nature of Religion and (c) Surplus inman	**8**	**Theory** **GE- 2:** **Western Philosophy** Unit-1: **1. Metaphysics** :NatureofMetaphysics,EliminationofMetaphysics	**8**

Feb		**9**	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-2:** 2. **SwamiVivekananda:** (a)PracticalVedāntaand (b)UniversalReligion	**7**	**Theory** **GE- 2:** **Western Philosophy** Unit-2: **2. Realism** :NaiveRealism, Scientific Realism	**7**
Mar		**7**	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-3:** 3. **SriAurobindo:** (a)Nature ofReality,(b)HumanEvolution– itsdifferentstages,(c)IntegralYoga	**8**	Theory **GE- 2:** **Western Philosophy** Unit-2: **2. Realism** : Scientific Realism, Representative Realism	**8**
Apr		**8**	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-4:** 4. **S.Radhakrishnan:** (a)Nature of Man,(b)Nature of ReligiousExperience	**6**	**Theory** **GE- 2:** **Western Philosophy** Unit-3: **3. Idealism**:Subjective Idealism	**10**
May		**8**	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-5:** 5. **Md. Iqbal**:(a)Nature of the Self,(b) Nature oftheWorld,(c) Nature ofGod	5	**Theory** **GE- 2:** **Western Philosophy** Unit-3: **3. Idealism**: Objective Idealism	**7**
June		**7**	**Theory** **CC- 1D:** **Contemporary Indian Philosophy** **Unit-6:**	4	**Theory** **GE- 2:** **Western Philosophy** Unit-4: **4. Critical Theory ofKant**	**6**

			6.**MahatmaGandhi:** (a)GodandTruthand(b)Ahimsa			11

Head of the Department,
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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Associate professor Rita Mukherjee

Philosophy (Honours) (2021-22) (July 2021 – June 2022)

	Sem-I (H)	Sem-III (H)	Sem-V (H)
	CC-2 Outline of Western philosophy . **Unit -1-Descartes -20** **Introduction -2** **Method of Doubt -2** **Cogito Ergo sum - 4** **Criterion of truth -2** **Classification of Ideas-4** **Substance--Defination of substance, Types of Substance--4** **Interactionism -2** **Unit -2- Spinoza -17** **Introduction-2** **The doctrine of Substance -4** **Diffination of Substance, characteristics of substance** **Substance=God=Nature** **"Natura-Naturans" &" Natura-Naturata"** **Attributes-2** **Relation between Substance & attributodes-2** **Parallelism-1** **Degrees of knowledge 2** **Determinism and Freedom-2** **Tutorial-2** **Unit - 3 Leibniz -- 14** **Introduction -2** **Monadology - -3** **Pre-established Harmony - 2** **Truths of Reason and Truths of Fact -2** **Theory of knowledge -2** **Substance theory of Descartes, Spinoza and Leibniz comparative discussion 2** **Tutorial -1**	**CC-VII- Indian Logic** **Unit 1: 16** • Introduction -2 • *Buddhi* and its different types • *Smriti-4* • *Anuvaba* • *Prama – Aprama-4* Difference between *Prama* & *Aprama-4* *Tutorial -2* **Unit 2: -16** • *Karana-2* • *Karana-4* • *Anyathasiddhi-2* • Different types of *Anyathasiddhi-2* • Different types of *Karana-3* • *Karya-1* • *Tutorial -2* **Unit 3: 14** • *Pratyaksa-Pramana-2* • Different types of *Pratyaksa-2* • Difference between *Nirvikalpaka* & *Savikalpaka Pratyaks--4* • Argument for the existence of *Nirvikalpaka Pratyaksa-2* • *Sannikarsa-1* • Different types of *Sannikarsa-2* • *Tutorial -2* **Unit 4:- 25** • *Anumana-Pramana--6* • *Laksna* of *Anumana--3* • Different Stages of *Anumana* (Vyapti, *Paksa-dharmata* & *Paramarsa*)--4 • *Laksna* of *Paramarsa-2* • Utility of *Paramarsa* in *Anumana-Pramana-2* • *Laksna* of *Vyapti*, Different types of *Vyapti* • How *Vyapti* established--3 • • Different types of *Anumana* • Difference between *Swarthanumana* & *Parathanumana--3* • *Tutorial -2* **Unit 5: --12** • Different types of *Linga* or *Hetu* • *Laksna* of different types of *Hetvabhasa* **Unit 6: 4** • *Upamana-Pramana* *Laksna* and its *Karana*	CC- XII -Western Logic -II. Unit -1 -Analogical Reasoning - 10. Introduction -01 Argument by Analogy - Defination of Analogical argument . symbolic example and example by proposition.--2 Criteria of Analogical argument -2 Term 'Valid' and 'Invalid' are applicable in Analogical argument? -1 Refutation by logical Analogy - 1 Summary of this ch.-2 Tutorial -1 Unit -2 -Causal Reasoning-20 Defination of Cause, Condition, type of Condition -2 Sufficient Condition, Necessary Condition and Sufficient - Necessary Condition - explain with example -4 Various types of Cause -2 Causal Laws and the Uniformity of Nature -1 Induction by Simple Enumeration -1 Methods of Causal Analysis -6 Method of Agreement Method of Difference Method of Agreement & Difference Method of Concomitant Variation Method of Residues Limitations of Inductive Techniques -2 Tutorial -2 Unit -3 Science & Hypothesis -12 Scientific Explanation -1 Distinguishes Scientific from Unscientific -2 Scientific Inquiry, Different stages of Scientific Inquiry -2 Evaluating Scientific Explanations-2 Crucial Experiment -1 Ad- hoc Hypothesis -1 Summary of this chapter -1 Tutorial -2 Unit -4-Probability-10 Unit -5 - Philosophy of Logic & Language Text- John Hospers : An Introduction to Philosophical Analysis -35 Meaning - word meaning & Sentence meaning -16 What is word , How a word can be defined?-2 Natural Sign and Conventional sign or Symbol -2 Meanings of the word "meaning"-4 Ambiguity -2. Sentence meaning -Criteria of Sentence meaning -4 Tutorial -2 Definition -9 What is Definition? Need of Definition. Verbal Definition Different types of Definitions Tutorial -1 Truth -10 Diffination of Truth Three types of theory about Truth Correspondence theory of Truth Coherence theory of Truth Pragmatic theory of Truth Tutorial
	Sem-II (H)	**Sem-IV (H)**	**Sem-VI (H)**

	2nd sem Hons.CC-4 Outlines of Western philosophy-ll Unit -1 -Locke -22 Introduction-2 Refutation of innate ideas -3 Theory of ideas -4 Diffination of ideas Source of ideas Two types of ideas (Simple & Complex) Four types of Simple ideas Primary quality & Secondary quality -2 Tertiary quality -1 Complex ideas ,Three types structure of Complex ideas -2 Different types of Complex ideas-1 Theory of Substance--2 Theory of knowledge--2 Degrees of knowledge-1 Tutorial-2 Unit-2 Berkeley -17 Introduction -2 Rejection of the Locke's notion of Substance- 3 Refutation of Abstract ideas -2 Rejection of the distinction between primary and secondary qualities - 2 Esse Est Percipi- 4 Idealism, Subjective Idealism , ls Berkeley's Idealism Solipsism? -2 Criticism of Berkeley's Idealism-1 Tutorial- 1 Unit -3, Hume -18 Introduction-2 Origin of knowledge-Impression and Ideas -3 Laws of Association-2 Relation of Ideas and Matters of fact -3 Nation of Causality -2 Problem of personal Identity -2 Scepticism- 3 Tutorial-1	**CC-VIII- Western Logic-1** **Unit 1: Categorical Proposition 16** • What is Proposition? ---2 • Classes & Categorical Proposition--2 • Four kinds of Categorical Proposition-----2 • • Quality, Quantity and Distribution----- 2 • Traditional Square of Opposition----2 • Immediate Inference • Existential Import & Interpretation of Categorical Proposition---2 • Symbolism & Diagrams for Categorical Proposition---2 • Tutorial --- 2 **Unit 2: Categorical Syllogism- 16** • What is Syllogism?--2 • Characteristics of Categorical Syllogism-----2 • Formal nature of syllogistic argument--2 • Figure & Mood of Syllogism • Rules of Categorical Syllogism---4 • Venn-Diagram for testing Syllogism-----4 • Tutorial ---2 **Unit 3: Syllogism in Ordinary Language---22** • Syllogistic Argument---2 • Reduction the number of terms to three----3 • Translating categorical proposition into standard form--2 • Uniform Translation---2 • Enthymemes---2 • Sorties--2 • Disjunctive and Hypothetical Syllogism---3 • The Dilemma---4 • Tutorial ---2 **Unit 4: Symbolic Logic –28** • Significance of Symbol • Simple & Compound Statement-----4 • Different types of Compound Statement & Uses their Symbol---4 • Uses Truth-table method of different Compound Statement---4 • Testing the validity by using Truth-table method---4 • Logical Equivalent • Material Equivalent---2 • Statement Form, Difference between Statement & Statement Form---2 • Determine truth-values of different types of Statement Form by using Truth-table	DSE-04- An Enquiry Concerning Human Understanding Introduction -2 Ch.-1 Of the different species of Philosophy -18 Different types of philosophy based on two perspectives of men.First perspective view & 2nd perspective view -2 Easy and Obvious Philosophy, Accurate and abstruse Philosophy, Profound Philosophy -4 Differentiation between two types of philosophy -2 What is 'Mental Geography'? "Be a Philosopher but, amidst all your philosophy,be still a man"-Significance the Sentence of Enquiry -4 Metaphysics, Does Hume exclusion Metaphysics? What type of Metaphysics approved by Hume?-4 Tutorial -2 Ch -II- Of the Origin of ideas -12 Source of ideas What is Sensation? Why Hume said, "The most lively thought is still inferior to the dullest sensation" Difference between sensation and ideas - 4 "No ideas without impression"- Is there any exception in ' Enquiry ' . Discuss with example that exception.- 2 Different argument given by Hume to established his opinion on Impression & Ideas.-2 Criticism of this chapter.-2 Tutorial -2 Ch.- III - Of the Association of ideas.- 6 What is Association? What is the Association of ideas?-2 Law of the Association of ideas. Explain with example three laws of the Association of ideas.2 Natural relation & Philosophical relation.-1 Criticism of this chapter.-1 Ch-IV-Sceptical Doubts Concerning the Operations of the Understanding -20 Relations of ideas & Matters of fact.-2 What is Relation of ideas.-Example. What is Matters of fact Difference between relation of Ideas and Matters of fact.-4

		method---4 • Refutation by logical analogy---1 • The Laws of Thought---1 • Tutorial ---2 **Unit 5: Method of Deduction – 30** • Formal Proof of Validity by Rules of Inference & Rules of Replacement---15 • Invalidity Proof----4 • Indirect Proof of Validity---4 • practice ---5 • Tutorial -2 **Unit 6: Quantification Theory -14** • Symbolism of Quantifier Proposition-----3 • Rules of Quantification Theory & Its Practice---5 • Invalidity Proof by Using Quantification Theory---2 • practice ---2 • Tutorial ---2	"All reasoning Concerning matters of fact founded on the relation of cause and effect "- Significance this sentence by Hume.-2 What is Custom?-1 Why Hume said that the relation of cause and effect is a Custom?-2 "The effect is totally different from the cause and consequently can never be discovered in it" -- Discuss.-3 Demonstrative Reasoning & Moral Reasoning.-2 Criticism of this chapter.-2 Tutorial class -2 Ch.-V-Sceptical Solution of these Doubts- 10 Academic or Sceptical philosophy - 02 "Custom is the great guide of human life " - Significance this statement -2 What is Belief? What is Fiction? Difference between fiction and belief -2 Instinct -1 Relation are established in ideas by three laws - Resemblance , Contiguity and Causality -2 Criticism of this chapter -1 Ch-VI - Of the Idea of Necessary Connection -20 What is Necessary Connection in general ? What is the Necessary Connection in Hume's idea? -4 What is Power? What are the argument to deny the existence of power - by Hume.-4 Given arguments from external world & internal world to established there are no power in relation of Causality.-4 What is the name of the causal theory in Hume's philosophy? Hume's theory of Causation.-3 "They seemed to be conjoined , but never connected."- 2 Defination of causation given by Hume's "Enquiry". -1 Tutorial -2.

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Ramesh Das
Philosophy (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** **CC- 1A: Indian Philosophy** **3. Jainism:** (a)anekāntavāda and(b)syādvāda and nayavāda	**6**	**Theory**		**Theory** **GE- 1: Indian Philosophy** **3. Jainism:** (a)anekāntavāda and(b)syādvāda and nayavāda	**7**
Aug	**Theory:** **4. Buddhism:** (b)FourNobleTruths(b)pratītyasamutpāda(c)kṣaṇabhaṅgavādaand(d)nairātmyavāda	**7**			**Theory** **4. Buddhism:** (b)FourNobleTruths(b)pratītyasamutpāda(c)kṣaṇabhaṅgavādaand(d)nairātmyavāda	**6**
Sept	Theory: **5. Nyāya**(a) pramāṇa: pratyakṣa (perception), anumāna (inference),	**7**			.**Theory** **5. Nyāya**(a) pramāṇa: pratyakṣa (perception), anumāna (inference),	**6**
Oct	**Theory:** **5. Nyāya**(a) upamāna (comparison) and śabda (testimony)	**6**	**Theory**		**Theory** **5. Nyāya**(a) upamāna (comparison) and śabda (testimony)	**6**

Nov	**Theory:** **7. Yoga :** (a)cittavṛttinirodha and (b)aṣṭāṅgayoga	**5**	**Theory**		**Theory** **7. Yoga :** (a)cittavṛttinirodha and (b)aṣṭāṅgayoga	**6**
Dec	**Theory:** **8. Mīmāṁsā**:(a)arthāpattiand(b)anupalabdhi	**6**	**Theory**		**Theory** **8. Mīmāṁsā**:(a)arthāpattiand(b)anupalabdhi	**5**
Jan	**Sem-II (G)** **CC- 1B: Western Philosophy** **5. Theories ofCausation** :RegularityTheoryandEntailmentTheory	**7**	**Sem-IV (G)** **Theory**		**Sem-VI (G)** **Theory** **GE- 2: Western Philosophy** **5. Theories ofCausation** :RegularityTheoryandEntailmentTheory	**8**

Feb	**6. Substance** :Views ofDescartes,Spinoza	**7**	**Theory**		**Theory** **6. Substance** :Views ofDescartes,Spinoza	**7**
Mar	**6. Substance** :Locke andBerkeley	**7**	**Theory**		Theory **6. Substance** :Locke andBerkeley	**8**
Apr	**7. Relation betweenMind and Body**:Interactionism	**6**	**Theory**		**Theory** **7. Relation betweenMind and Body**:Interactionism	**6**
May	**7. Relation betweenMind and Body**: Parallelism	**6**	**Theory**		**Theory** **7. Relation betweenMind and Body**: Parallelism	**7**
June	**8. Theories ofEvolution** :Mechanistic	**4**	**Theory**		**Theory** **8. Theories ofEvolution** :Mechanistic and Emergent	**5**

	and Emergent					

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Mr. RAMESH DAS
Philosophy (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**Theory:** **CC-1:** Unit3: **Outlines of Indian Philosophy—I** **Jainism:** (a) anekāntavāda, (b) syādvāda and nayavāda,	**8**	**Theory** **CC-5:** **Indian Ethics** Unit-1: ***puruṣārtha*** (Cārvāka and Āstikaviews)	**17**	**Theory** **DSE-1:** Kaṭhopaniṣad Chapter 1: Kaṭhopaniṣad First Chapter : vallis – I,	**16**
Aug	**Theory:** **CC-1:** Unit 3 (c) Theory of Self and Liberation (d) Nature of Substance: Relation between Substance, Attributes & Modes	**7**	**Theory** **CC-5**: Unit 2: **Vedic Concept**s : ṛta, satya, yajña, ṛṇa	**17**	**Theory** **DSE-1:** Chapter 1: Kaṭhopaniṣad First Chapter : vallis – I,	**18**
Sept	**Theory:** **CC-1:** Unit 4: **Buddhism:** (a)Four Noble Truths, (b) pratītyasamutpāda (c) kṣaṇabhangavāda,	**9**	**Theory** **CC-5:** Unit 3: **Ethics in** ***Śrīmadbhagavadgītā*** : niṣkāmakarma and sthitaprajña	**17**	.**Theory** **DSE-1:** Chapter 2: First Chapter : vallis – II	**17**
Oct	**Theory:** **CC-1:** Unit 4: (d) nairātmyavāda (e) Four Major Schools of Buddhism	**9**	**Theory** **CC-5:** Unit 4: **Buddhist Ethics:** pañcaśīla and brahmavihāra	**16**	**Theory** **DSE-1:** Chapter 2: First Chapter : vallis – II	**15**
Nov	**Theory:** **CC-1:** Unit 5: **Nyāya:** (a) Nyāya Epistemology **:** pratyakṣa (Percepti on), (b)anumāna (Inference),	**9**	**Theory** **CC-5:** Unit 5 **Jaina Ethics:** pañcavrata: mahāvrata and anuvrata, and triratna	**18**	**Theory** **DSE-1:** Chapter 3: First Chapter : vallis – III	**17**

Dec	**Theory:** **CC-1:** Unit 5: (c)upamāna (Comparison) and (d) śabda (Testimony); (e) khyātivāda (Theory of Error)	**9**	**Theory** **CC-5:** Unit 6: **Yoga Ethics:** yama and niyama	**17**	**Theory** **DSE-1:** Chapter 3: First Chapter : vallis – III	**16**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	Theory **CC-3:** **Outlines of Indian Philosophy-II** **Unit-2:** **Yoga:**(i) citta,(ii) cittabhūmi,(iii) cittavṛtti,	**7**	**Theory** **CC-9:** **Psychology** Unit-1&2: **1.Nature of Psychology** **2.ResearchMethodsinPsychology**	**16**	**Theory** **DSE-3:** **RabindranathTagore:*Sadhana*** Unit 1: THE RELATION OF THE INDIVIDUAL TO THE UNIVERSE	**17**
Feb	**Theory** **CC-3:** Unit-2: (iv) cittavṛttinirodha (v) īśvara	**9**	**Theory** **CC-9:** Unit-3: **Central Nervous system** .	**18**	**Theory** **DSE-3:** Unit 1: THE RELATION OF THE INDIVIDUAL TO THE UNIVERSE	**18**
Mar	**Theory** **CC-3:** Unit-3: **Pūrva-Mīmāṁsā:**(i) pramāṇa-s with special reference to arthāpatti and anupalabdhi	**7**	**Theory** **CC-9:** Unit 4&5: **4.Perception:** Colour and Depth , Pattern Recognition, Perceptual Organization **5.Attention:**Nature, Conditions, Span and Division of Attention	**17**	Theory **DSE-3:** Unit 2: SOUL CONSCIOUSNESS	**17**

Apr	**Theory** **CC-3:** Unit-3: (ii) prāmāṇyavāda	**8**	**Theory** **CC-9:** Unit -6: **Learning:** Classical Conditioning Theory, Instrumental (Operant) Conditioning Theory, Trial and Error Theory, Insight Theory	**18**	**Theory** **DSE-3:** Unit-3: THE PROBLEM OF EVIL	**16**
May	**Theory** **CC-3:** Unit-6: ***Khyātivāda:*** (Theory of Error): Bhāṭṭa	**8**	**Theory** **CC-9:** Unit -7& 8: **7.Memory:** Factors of Memory, Marks of Good Memory, Laws of Association, Causes of Forgetfulness **8. Consciousness:** Levels of Consciousness, Freud's Theory of Dream	**17**	**Theory** **DSE-3:** Unit-4: THE PROBLEM OF SELF	**16**
June	**Theory** **CC-3:** Unit-6: ***Khyātivāda:*** (Theory of Error): Advaita Vedanta	**7**	**Theory** **CC-9:** Unit-9: **Intelligence**: Insight and Intelligence, Measurement of Intelligence, I. Q. Test of Intelligence	**15**	**Theory** **DSE-3:** Unit-5: REALISATION IN LOVE	**18**

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF Associate professor Rita Mukherjee

Philosophy (General) (2021-22) (July 2021 – June 2022)

	Sem-I (H)	Sem-III (H)	Sem-V (H)
	1st Sem. General/GE CC-1A/CC-1B/GE-1-Indian Philosophy **Mimansha Philosophy- 4** **Significance of the term ' Mimansha' .** **Classification of Mimansha Philosophy --** **Main two promana of Mimansha Philosophy.** **Aorthaportti and Anupolobddhi** **What is Aorthaportti?** **Why it is called separate promana- according to Mimansha Philosophy?** **Different types of Aorthaportti-** **Anupolobddhi -** **Vedanta philosophy-4** **Meaning of the term " Vedanta" .** **What is the main theme of Vedanta philosophy?** **Nature of Brahman?** **What is 'Maya'?** **Relation between Brahman to jiv and jagat.**	Subject -Philosophy, 3rd Sem.General GE-3/CC-IC/CC-2C-Logic Unit - I -Basic Concept of Logic -9 Introduction -2 Nature and Scope of Logic-2 Sentence, Proposition and Statement -2 Inference and argument -2 Tutorial -1 Unit -2 Types of argument -5 What is Deductive argument? What is Inductive argument? What are the differences between Deductive & Inductive argument?-1 Conception of the term 'Valid' & ' Invalid '. Relation between Truth & Validity - 2 Tutorial - 2 Unit -3- Opposition of Proposition -- 10 What is Opposition of Proposition?-- 1 Different types of Opposition of Proposition.What is Square of Opposition, Different types of square of opposition.-- 2 Rules of truth & falsity depend on traditional square of opposition --2 Follow some exercise and question papers ---4 Tutorial --1 Unit -4 -Immediate Inference -Conversion-Obversion - Contraposition -10 What is Immediate Inference? , What is the difference between mediate and immediate ? , What is Conversion? ,How many types of conversion? Discuss it's rules with example.--2 Why 'O' Proposition can't be converted?---1 Do simple conversion is possible to 'A' Proposition? In which cases simple conversion possible to 'A' Proposition? What is obversion? Discuss it's rules with example -1 What is contraposition? Rules of contraposition-2 Why contraposition is impossible for 'I' proposition? Which cases existential fallacy occur in immediate inference?--2 Practice from exercise & B.U.question papers -1 Unit -5 Categorical Syllogism -25 What is Categorical Syllogism? Rules of Categorical Syllogism. Formal nature of Categorical Syllogism.	5th Sem.General-SEC-3-Philosophical Analysis Unit-1 Meaning -10 Word Meaning and Sentence Meaning -4 Testability and Meaning -- 4 Discuss short type of question and follow University question papers -2 Unit -2 Concept of Truth -10 What is Truth ? Criteria of Truth.-1 Different types of the theory about the nature of truth.-1 Correspondence theory of Truth.-2 Coherence theory of Truth-2 Pragmatic theory of Truth-2 Discuss which theory is acceptable.-2 Unit -3 Knowledge -Nature & Source of Knowledge -10 What is knowledge? Different types of meaning about the verb "To Know " .-2 Knowledge by acquaintance Knowledge by ability Knowledge by Propositional sense Necessary and Sufficient condition of knowledge - 4 Theory of Empiricism -2 Theory of Rationalism -2. Dicuss the important role about the source of knowledge.-2. --------+---------+------

		Fallacy of Categorical Syllogism --- 10 Figure & Mood of Categorical Syllogism. Follow exercise & University question papers-4 Venn Diagram of single term , Categorical proposition & Categorical Syllogism.-6 Testing Validity by Venn Diagram Method - 2 Follow exercise & University question papers -3 Unit -6 Truth Functional Arguments -20 Modern symbolic logic and it's application Symbol of Conjunction , Disjunction,Negation and uses in truth - functional proposition. What is Truth -table? How do make form of Truth table -- 5 Meterial Implication , Meterial Equivalence- 4 Transfer the general argument to truth-functional argument, Testing argument with Truth -table method - 4 What is statement form? Difference between Statement form and proposition, Determine the truth -value of statement form with the help of truth -table method -- 4 Follow exercise and University question papers -3 Unit -7 Science and Hypothesis -9 What is Hypothesis? Explanation of scientific and Un- scientific. Criteria of Scientific explanation -3 Difference between scientific and unscientific explanation according to I.M.Copy.-2 Scientific Inquiry ,Seven stages of scientific Inquiry with example -2 Different Condition of good hypothesis -2	
	Sem-II (H)	**Sem-IV (H)**	**Sem-VI (H)**

			Philosophy Department 6th Sem.General DSE- 1B -Tarka samgraha.(Text Book) Syllabus - Sapta Pardertha Unit - 1 - Poder tho -10 What is Poder tho? How many types of Podertho & what are they? What is the meaning of sapto pader tho? Why the term "Sapto" is important in Tarka Samgraha? Unit -2- Dravya -8. What is the lakshana of Dravya ?- 2 How many types of Dravya? What are they? --2 Is darkness a separate substance? -4 Unit -3 - Guna -6 What is Guna? How many types of Guna according to Annanmbhatta? Lakshana of Guna. Unit -4-Karma--6 What is karma? How many types of karma? Lakshana of karma. Unit -4-Samanya -10 What is the meaning of Samanya in general? Lakshana of Samanya (Universal) according to Tarka Samgraha? Types of Samanya? Why it is a separate podartho according to Tarka Samgraha? What is jatibadhaka?(জাতি-বাধক) ? How many types of jatibadhaka? What are they? Unit --- 5 - Vishesh (Perticular) -10 What is Vishesh? Lakshana of Vishesh according to Tarka Samgraha? Why it is a separate podartho according to Tarka Samgraha? Unit - 6 - Samavya --10 Lakshana of Samavya. What is the difference between Samavya and sanjoga? In which cases Samavya relation are possible? Tutorial --2 Unit -7 - Avabo -10 The Lakshana of Avabo. Why it is a separate podartho according to Tarka Samgraha? How many types of Avabo? what are they?

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DEPARTMENT OF PHILOSOPHY

TEACHING PLAN OF SIMANTI CHATTERJEE
Philosophy (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**Theory:** **CC-1A: Indian Philosophy** Unit1&2: **1. Introduction:** GeneralFeatures of IndianPhilosophy **2. Cārvāka:** (a)pratyakṣa(perception)asthe onlySourceofKnowledge(b)Refutationofanumāna (inference) and śabda (testimony) as Sources of Knowledge and (c) jaḍavāda and dehātmavāda	**8**	**Theory** **CC-1C:** **Logic** Unit1: **1. Basic Concept of Logic:** (a)Nature andBScope ofBLogic, (b)Sentence, Proposition and Statementand (c) Inference and Argument **Theory** **SEC- 1** **Philosophy in Practice** Unit1: ***1.* Common andDifferentiatingCharacteristics of Philosophy and*darśana***	**12** 5	**Theory** **DSE- 1A :** **Philosophy of Religion** Unit1: 1. **Nature and Scope of Philosophy ofReligion:** (a) Religion, Dharma, Dhamma, (b)Philosophy of Religion, Comparative ReligionandTheology **GE- 1 :** **Indian Philosophy** Unit1&2: 1. **Introduction:** GeneralFeatures of IndianPhilosophy 2. **Cārvāka:** (a)pratyakṣa (perception) as the only Source of Knowledge (b)Refutationof anumāna (inference) andśabda (testimony) asSourcesofKnowledge and(c)jaḍavādaand dehātmavāda	**10** 12
Aug	**Theory:** **CC-1A:** Unit 3&4: **3. Jainism:** (a)anekāntavāda and(b)syādvāda and nayavāda **4. Buddhism:** (b)FourNobleTruths(b)pratītyasamutpāda(c)kṣaṇabhaṅgavādaand(d)nairātmyavāda	**7**	**Theory** **CC-1C**: Unit 2: **2. Typesof Argument :** Deductive ArgumentandInductive Argument **Theory** **SEC- 1** Unit 2: ***2.* Nature of Inquiry in Philosophy and*darśana***	**11** 4	**Theory** **DSE- 1A :** Unit2: 2. **Anthropological and FreudienTheories concerning the OriginandDevelopment** ofReligion **GE- 1** Unit 3&4: 3. **Jainism:** (a)anekāntavāda and (b) syādvāda andnayavāda 4. **Buddhism:** (a)FourNobleTruths(b)pratītyasamutpāda	**18** 13

					(b)kṣaṇabhaṅgavādaand(c)nairātmyavāda	
Sept	**Theory:** **CC-1A:** Unit 4: Unit 5: **5. Nyāya–Vaiśeṣika:** (a) pramāṇa: pratyakṣa (perception), anumāna (inference), upamāna (comparison) andśabda (testimony)and (b)saptapadārtha (SevenCategories)	**9**	**Theory** **CC-1C:** Unit 3 **3. Opposition of Propositions** **SEC- 1** Unit 3: **3. Outlines of the TypesofInquiry in Philosophy and *darśana*:** (a)Epistemic Inquiry in Philosophy and darśana and (b) Metaphysical Inquiry in Philosophy and darśana	**10** 4	.**Theory** **DSE- 1A** Unit3: 3. **FundamentalFeaturesof MajorReligions:**Hinduism,Christianity,Islam:Basic Tenets,Bondageand Libera **GE- 1** Unit5: 5. **Nyāya–Vaiśeṣika:** pramāṇa: pratyakṣa (perception), anumāna (inference), upamāna (comparison)and śabda (testimony	**14** 13
Oct	**Theory:** **CC-1A:** Unit 6: **6. Sāṁkhya:** (a)satkāryavāda (TheoryofCausality)and(b)pariṇāmavāda(TheoryofEvolution)	**9**	**Theory** **CC-1C:** Unit 4: **4. Immediate Inference:** Conversion, ObversionandContraposition **SEC- 1** Unit 4: **4. AfewModelWorld-viewsandCorrespondingPathsLeadingtoPerfection:**(a)Plato'sview, (b) Kant's view,	**11** 5	**Theory** **DSE- 1A :** Unit4: 4. **Arguments for the Existence of God:** (Indian and Western): Yoga Arguments, Cosmological Arguments, TeleologicalArguments,OntologicalArguments **GE- 1** Unit6&7: 6. **Sāṁkhya:** Satkāryavāda (Theory of Causality) 7. **Yoga :** (a) cittavṛttinirodha and(b)aṣṭāṅgayoga	**15** 13
Nov	**Theory:** **CC-1A:** Unit 7&8: **Nyāya:** **7. Yoga :** (a)cittavṛttinirodha and (b)aṣṭāṅgayoga **8. Mīmāṁsā**:(a)a	**9**	**Theory** **CC-1C:** Unit 5&6: **5. CategoricalSyllogisms :** RulesandFallacies, VennDiagram **6. Truth-functional Arguments** **SEC- 1** Unit 4:	**12** **4**	**Theory** **DSE- 1A :** Unit5: 5. **Argumentsagainst theExistenceofGod**:SociologicalArguments,FreudianArguments **GE- 1** Unit8:	**15** **10**

	rthāpattiand(b)anupalabdhi		**4. AfewModelWorld-viewsandCorrespondingPathsLeadingtoPerfection:** (c) Sāṁkhya view and (d) Advaita Vedānta View		8. **Mīmāṁsā :** (a)arthāpattiand (b)anupalabdhi	
Dec	**Theory:** **CC-1A:** Unit 9: **9. Advaita Vedānta:** Brahman, jīva and jagat	**6**	**Theory** **CC-1C:** Unit 7: **7. Science andHypothesis** **SEC- 1** Unit5: **5. MethodsofPhilosophicalDisCourse (*kathā*):** (a)vāda, (b)jalpa, (c)vitaṇḍā,(d)chhala,(e)jātiand (f) nigrahasthāna	**9** 4	**Theory** **DSE- 1A :** Unit6: **6. Monotheism, Polytheism, Henotheism** **GE- 1** Unit9: 9. **Advaita Vedānta:** Brahman, jīva and jagat	**12** **8**
Jan	**Sem-II (G)** **Theory** **CC-1B:** **Western Philosophy** Unit1&2: **1. Metaphysics** :Nature ofMetaphysics, EliminationofMetaphysics **2. Realism** :NaiveRealism, Scientific Realism, Representative Realism	**7**	**Sem-IV (G)** **Theory** **CC- 1D:** **Contemporary Indian Philosophy** Unit1: 1. **RabindranathTagore:**(a)NatureofMan:TheFiniteAspectofMan, theInfiniteAspectofMan,(b)Nature of Religion and (c) Surplus inman **SEC- 2** Unit1: **1. Definition and Nature of Human Rights**	**12** 4	**Sem-VI (G)** **Theory** **DSE-1B:** ***Tarkasaṁgraha with Dīpikā*** Unit1: a. Dravya **GE- 2:** **Western Philosophy** Unit1&2: **1. Metaphysics** :Nature ofMetaphysics,EliminationofMetaphysics **2. Realism** :NaiveRealism, Scientific Realism, Representative Realism	**17** 12
Feb	**Theory** **CC-1B:** Unit 3&4: **3. Idealism**:Subje	**9**	**Theory** **CC-1D:** Unit2: 2. **Swami Vivekananda:**	**10**	**Theory** **DSE-1B** Unit1:	**15**

	ctive Idealism, Objective Idealism **4. Critical Theory ofKant**		(a)PracticalVedāntaand (b)UniversalReligion . **SEC- 2** Unit2: **2. The Idea of Human Rights**: ItsOriginsandHistoricalDevelopmentsduringAncientperiod	5	**Guna** **GE- 2** Unit3: **3. Idealism**:Subjective Idealism, Objective Idealism	**12**
Mar	**Theory** **CC-1B:** Unit-5: **5. Theories ofCausation** :RegularityTheoryandEntailmentTheory	**7**	**Theory** **CC-1D:** Unit3: 3. **SriAurobindo:** (a)Nature ofReality,(b)HumanEvolution–itsdifferentstages,(c)IntegralYoga **SEC- 2** Unit2: **2. The Idea of Human Rights:** Modern periodand Contemporary period	**11** 4	Theory **DSE-1B** Unit1: karma **GE- 2** Unit4&5: **4. Critical Theory ofKant** **5. Theories ofCausation** :RegularityTheoryandEntailmentTheory	**17** 12
Apr	**Theory** **CC-1B:** Unit-6: **6. Substance** :Views ofDescartes,Spinoza,Locke andBerkeley	**8**	**Theory** **CC-1D:** Unit4: 4. **S.Radhakrishnan:** (a)Nature of Man,(b)Nature of ReligiousExperience **SEC- 2** Unit3: **3. The Idea ofNatural Lawand Natural Rights:** ThomasHobbesandJohnLocke	**10** 5	**Theory** **DSE-1B** Unit1: **samanya** **GE- 2** Unit6: **6. Substance** :Views ofDescartes,Spinoza,Locke andBerkeley	**16** 10
May	**Theory** **CC-1B:** Unit-7: **7. Relation betweenMind and Body**:Interactionismand Parallelism	**8**	**Theory** **CC- 1D**: 5. **Md. Iqbal**:(a)Nature of the Self,(b) Nature oftheWorld,(c) Nature ofGod **SEC- 2** **4. Natural Right,FundamentalRight andHumanRight**	**12** 4	**Theory** **DSE-1B** Unit1: Visesa, samabaya **GE- 2** Unit7: **7. Relation betweenMind and Body**:Interactionismand Parallelism	**16** 12
June	**Theory** **CC-1B:**		**Theory** **CC- 1D**:		**Theory** **DSE-1B**	

	Unit-8: **8. Theories ofEvolution** :Mechanistic and Emergent	**7**	Unit6: 6. **MahatmaGandhi:** (a)GodandTruthand(b)Ahimsa **SEC- 2** Unit5: **5. Preamble, Fundamental Rights andDuties (IndianConstitution)**	**11** 5	Unit1: Avaba **GE- 2** Unit8: **8. Theories ofEvolution** :Mechanistic and Emergent	**12** 11

Head of the Department,
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DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF SABIRUL ISLAM

Political Science (Honours) (July 2021 – June 2022)

Month	Sem-I	No. of Lecture	Sem-III	No. of Lecture	Sem-V	No. of Lecture
July-December ,2020	**Honours** **CC1:** **Western Political Thought** Chapter-4: Hobbes: Concept of Sovereignty; Locke: Foundation of Liberalism; Rousseau: General Will Introduction Hobbes and his life Hobbes as thinker Hobbes's idea of sovereignty Locke as a philosopher Liberalism Lockes's idea of liberalism Rousseau as philosopher Rousseau's idea of general will **CC-2:** **Political Theory** Chapter-3 The Concept of Sovereignty: a) Monistic b) Pluralist c) Popular Introduction The concept of sovereignty Monistic view of sovereignty	**24** **24** **1** **2** **2** **4** **2** **4** **3** **2** **4** **23** **9** **1** **3** **2**	**Honours** **CC- 6** **Public Administration** Chapter-1 Public Administration: Meaning, Dimensions and Significance of Public Administration; Evolution of Public Administration as a Discipline; Identity Crisis of Public Administration Introduction Public administration: meaning and dimensions Significance of public administration Evolution of public administration Chapter-2 Classical Theories: Scientific Management(F.W.Taylor); Administrative Mangement (Gullick, Urwick); Ideal type bureaucracy (Weber) Introduction to classical theories Scientific management by Taylor Administrative management by Gullick and Urwick Ideal type of Bureaucracy Chapter-3 Neo-classical Thories: Human Realtions(Elton Mayo); Decision Making	**55** **10** **1** **2** **2** **4** **14** **2** **4** **3** **5** **14**	**Honours** **CC12:** **Elementary Research Methods in Political Science** Chapter-1 a) Theoretical foundation of research: A brief outline of Positivism, Post-Positivism and their Critics b) Methodology of Research: Qualitative and Quantitative Introduction to research Theoretical foundation of research Positivism Post-positivism Methodology of research Qualitative research Quantitative research **DSE-2:** **Democracy and Decentralized Governance** Chapter-1 Evolution of the State	**32** **18** **14** **5** **6** **4** **3** **4** **5** **5** **19**

	Pluralist view of sovereignty	**2**	Theory (Herbert Simon); Motivation Theory (Maslow)		System and the concept of Sovereignty	**9**
	Popular view of sovereignty	**2**	Introduction to neo-classical theories of public administration	**2**	Introduction	**1**
	Chapter-5 Theory of Justice: Rawls	**13**	Elton Mayo's Human relation theory	**4**	Evolution of the state system The concept of sovereignty	**4** **4**
	Introduction	**2**	Decision making theory of Simon	**5**		
	Rawls as a philosopher	**2**	Motivation theory by Abraham Maslow	**3**	Chapter-2 Global Economy: Bretton Woods institutions (World Bank, IMF) and WTO	**10**
	Justice	**4**				
	Rawls idea of justice	**5**			Introduction to world economy	**2**
			Chapter-4 Contemporary Theories: Ecological Appraoch (Fred Riggs); Innovations and Entrepreneurship (Peter Drucker)	**8**	Bretton woods	**2**
			Fred Riggs ecological approach	**6**	World bank IMF	**2** **2**
			Innovation and entrepreneurship	**2**	WTO	**2**
			Chapter-5 Concepts of Administration: Hierarchy, Span of Control, Unity of Command, Line and Staff, Centralization-Decentralization, Devolution and Delegation	**9**		
			Hierarchy	**2**		
			Span of control	**1**		
			Unity of command	**1**		
			Line and staff	**1**		
			Centralization	**1**		
			Decentralization	**1**		
			Devolution	**1**		
			delegation	**1**		
	Sem-II (H)		**Sem-IV**		**Sem-VI**	
	<u>Honours</u> CC-3: Indian Political Thought	**9**	**Honours CC-8: International Relations**	**10**	**Honours CC-14: Contemporary**	**10**

January-June, 2021	Chapter-3 Raja Rammohan Roy: Perception of British Colonial Rule and their role as Modernizers	**9**	Chapter-5 Post-Cold War Global Issues: **a)** Globalization **b)** Human Rights **c)** Terrorism	**10**	**Issues in India** Chapter-4 Political Economy of Poverty and Inequality	**10**
	Raja Rammohan Roy as social reformer and philosopher	**4**	Introduction to post cold-war situations	**2**	The concept of political economy	**2**
	His perception of British rule	**2**	Globazation	**3**	Measurement of poverty	**2**
	British rule as modernizers	**3**	Human rights	**3**	Dimensions of poverty	**2**
	CC-4: Indian Government and Politics	**31**	Terrorism	**2**	The concept of inequality	**2**
	Chapter-5 Union Executive: President and Prime Minister: Powers and Functions; Governor and Chief Minister: Powers and functions	**20**	**CC- 9: Sociology and Politics** Chapter-6 Environment and Politics: Environment Movements-an overview; Eco-Feminism	**8** **8**	Dimensions of inequality	**2**
	Introduction to the union executives	**2**	Introduction	**1**	**DSE-3** **Local Government in West Bengal**	**30**
	Nominal Executive and Real Executive	**1**	Relation between environment and politics	**2**	Chapter-1 Evolution of Rural and Urban local governments in West Bengal since Independence	**7**
	President	**1**	Environment movements	**3**	Introduction to local governments	**3**
	Powers of the President	**2**	Eco-feminism	**2**	Evolution of local government in west Bengal since independence	**4**
	Functions of the President	**2**	**CC-10** **International Organizations**	**6**	Chapter-2 Structure and functions of Panchayati Raj Institutions in the light of the West Bengal Panchayet Act of 1973(as amended up to date)	**8**
	Prime Minister	**1**	Chapter-1 Evolution of international organizations	**6**		
	Powers of Prime Minister	**2**	International organizations	**6**		
	Functions of the Prime Minister	**3**	Chapter-2 United Nations: Its Emergence: General Assembly and Security Council: Secretariat: Secretary General: International Court of Justice: Compositions and Functions	**13**		
	Governor	**1**			Structure and functions of panchayati raj	**8**
	Powers and Functions of Governor	**2**	Introduction to the United Nations	**2**		
			Its emergence	**2**	Chapter-4	

	Chief Minister	**1**	General assembly	**2**	Local Government and Empowerment of Women, SCs and STs	**8**
	Powers and Functions of Chief Minister	**3**	Security council	**3**		
			Secretariat	**2**	Empowerment of women, SCs and STs	**2**
	Chapter-6 Judiciary: Supreme Court and High Court- Composition and Functions	**11**	International court of justice	**2**	Scope of empowerment of women through local government	**2**
			Chapter-3 Peacekeeping and Peacebuilding role of UN	**4**		
	Introduction to the Judicial System	**3**	Peacekeeping and peacebuilding role of UN	**4**	Scope of empowerment of SCs in local government	**2**
	Supreme Court	**1**				
	Composition of Supreme Court	**1**			Scope of STs empowerment through local government	**2**
	Functions of the Supreme Court	**2**				
					Chapter-5 State- Local Government Relations: Financial control of the State	**7**
	High Court	**1**				
	Composition of High Courts	**1**				
	Functions of High Courts	**2**			The state government behavior towards local government	**3**
					Financial control of the state	**4**

DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF SUBRATA KUMAR GUPTA

Political Science (Honours) (July 2021 – June 2022)

Month	Sem-I	No. of Lecture	Sem-III	No. of Lecture	Sem-V	No. of Lecture
July-December,2020	**Honours** **CC1: Western Political Thought** Chapter-1 Ancient Greek Political Thought: Plato- Justice; Aristotle- Concept of the State Chapter-3 Renaissance and Machiavelli: Concept of Power and Secularization of Politics **CC-2: Political Theory** Chapter-4 Liberty and Equality: Meaning and their inter-relationship	**24** **12** **12** **11** **11**	**Honours** **CC5: Comparative Politics** Chapter-1 Transition from Comparative Government to Comparative Politics- Scope and Objective of Comparative Politics Chapter-2 Conventions and the Rule of Law in UK; Bill of Rights in the USA Chapter-3 Unitary System; UK and France; Federal System: USA	**24** **10** **8** **6**	**Honours** **DSE-1: Select Comparative Political Thought** Chapter -1 Distinctive features of Indian and Western Political Thought Chapter-2 a) Kautilya on State b) Tilak and Gandhi on Swaraj	**22** **10** **12**
January-June, 2021	**Sem-II (H)** **Honours** **CC-3: Indian Political Thought** Chapter-1 Ancient Indian Political Thought: Features; Kautilya's theory of Saptanga and the concept of Dandaniti	**10** **10**	**Sem-IV** **Honours** **CC- 9: Sociology and Politics** Chapter -2 Political Culture: Meaning, Components and Types; Political Socialization: Meaning Role and Agencies Chapter-3 Political Participation: Meaning and Components	**21** **7** **6**	**Sem-VI** **Honours** **CC-14: Contemporary Issues in India** Chapter-1 Caste system in India- its changing nature and dynamics Chapter-2 Women-discrimination and	**23** **9**

	CC-4: Indian Government and Politics Chapter -**1** b) The Preamble and its Significance chapter-2 a) Fundamental Rights and Duties	**10** **10**	Chapter-4 Concepts of Power and Authority **SEC- 2: Public Opinion and Survey Research** Chapter1 Definitions and Characteristics of Public Opinion Chapter-2 Measuring Public Opinion: Methods and types of sampling	**8** **13** **6** **7**	violence against women Chapter-3 Secularism and communalism	**8** **6**

DEPARTMENT OF POLITICAL SCIENCE
TEACHING PLAN OF JAGANNATH BARMAN
Political Science (General) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	N Le
July	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; State.	10	DSE-1A Distinctive features of Indian and Western political thought	
August	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; State.	10	DSE-1A Distinctive features of Indian and Western political thought GE-1; Ancient Indian Political Thought : Features	
September	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; Society	10	DSE-1A Locke on Rights GE-1 Kautilya's theory of Saptanga.	
October	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; Society	10	DSE-1A Kautilya on State GE-1; Kautilya's concept of Dandaniti	
November	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; Nation	10	DSE-1A Tilak on Swaraj GE-1 Rabindranath Tagore ; State, Society and Nation	
December	GE-1/ CC-1A J.S. Mill: Concept of Liberty	5	GE-3/CC-1C Rabindranath Tagore ; Nation	10	DSE-1A Gandhi on Swaraj GE-1 Rabindranath Tagore ; State, Society and Nation	
January	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	GE-2/CC-1B The meaning of Politics	5	GE-4/CC-1D; The Constituent Assembly:Composition	10	DSE-1B; Globalization: Meaning and debates GE-2; The Constituent Assembly: Composition	
February	GE-2/CC-1B The meaning of Political Theory.	5	GE-4/CC-1D; The Constituent Assembly: Role	10	DSE-1B; Globalization: Meaning and debates GE-2; The Constituent Assembly: Role	
March	GE-2/CC-1B Importance of Political Theory.	5	GE-4/CC-1D; The Preamble and its Significance	10	DSE-1B; Impact of Globalization on Indian Economy GE-2; The Preamble and its Significance	
April	GE-2/CC-1B Traditional Approach	5	GE-4/CC-1D; Nature of Indian Federalism	10	DSE-1B; Impact of Globalization on Indian Economy GE-2; Nature of Indian Federalism	
May	GE-2/CC-1B Behavioural and Post-Behavioural Approach	5	GE-4/CC-1D; Centre-State Legislative relations.	10	GE-2; Centre-State Legislative relations.	
June	GE-2/CC-1B Marxist Approach	5	GE-4/CC-1D; Centre-State Administrative and Financial Relations	10	GE-2; Centre-State Administrative and Financial Relations	

DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF MADHABI LAHA

Political Science (Honours) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No Lec
July	CC-2; Different Approaches:	5	CC-7; 73rd Amendment Act and its implications for rural local-self Government in India.	5	DSE-2 Transnational economic actors	5
August	CC-2; Traditional Approach	5	SEC-1; Powers and functions of people's representatives at different tiers of governance	5	DSE-2; Role of MNC s	5
September	CC-2; Traditional Approach	5	SEC-1: Members of Parliament; State Legislative Assemblies	5	DSE-2; Role of MNC s	5
October	CC-2; Behavioural Approach	5	CC-7: 74th Amendment Act and its implications for urban local-self Government in India	5	DSE-2; Global Poverty	5
November	CC-2; Post-Behavioural Approach	5	SEC-1; Supporting the legislative process	5	DSE-2; Global Poverty	5
December	CC-2; Marxist Approach	5	Sec-1: Law-making procedure, Role of Committees	5	DSE-2; Sustainable Development Goal	5
January	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	CC-3; Main features of medieval Muslim Political Thought	5	CC-8: Nature and Scope of International Relations;	5	DSE-4 Globalization:Meaning and debates	5
February	CC-3: Main features of medieval Muslim Political Thought.	5	CC-8; Idealist Approach in IR	5	DSE-4 Globalization:Meaning and debates	5
March	CC-4; Party System in India	5	CC-8; Realist and Neo-Realist approaches in IR	5	DSE-4 Globalization:Meaning and debates	5
April	CC-4; Features of Indian Party System	5	CC-8; Foreign Policy and Diplomacy: Concepts	5	DSE-4; Impact of Globalization on Indian Economy	5
May	CC-4; Trends of Indian Party System	5	CC-8; Foreign Policy and Diplomacy: Determinants and Objectives	5	DSE-4; Impact of Globalization on Indian Economy	5
June	CC-4; Coalition Governments in India	5	CC-8; Indian Foreign Policy: Basic Tenets	5	DSE-4; Impact of Globalization on Indian Economy	5

SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF MAINAK MANDAL
Political Science (General) (July 2021 – June 2022)

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	N Le
July-December, 2021	**CC1/GE-1: Western Political Thought**	**20**	**CC-3/GE-3: Indian Political Thought**	**18**	**DSE-1A: Select Comparative Political Thought**	**19**
	Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism	20	**Chapter-4**: Bankim, Vivekananda: Nationalism	10	**Chapter - 2(c)** Rousseau on inequality	4
	Introduction to Marx and Engels	2	About Bankim,	1	**Chapter - 3(b)** Tilak and Gandhi on Swaraj	7
	About Marxism	2	About Vivekananda	1	Tilak on Swaraj	4
	Dialectical Materialism	4	Bankim: Nationalism	3	Gandhi on Swaraj	3
	Historical Materialism	4	Vivekananda: Nationalism	3	**Chapter-3(d)** Nehru and Jayaprakash Narayan: Democracy	8
	Revolution	4	Vivekananda: Man Making Concept	2	Nehru : Democracy	4
	Lenin: Imperialism	4	**Chapter -5:** Gandhi: Satyagraha, Trusteeship.	8	Jayaprakash Narayan: Democracy	4
			About Gandhi	1		
			Satyagraha	4	**GE-1: Indian Political Thought**	18
			Trusteeship	3	**Chapter-4**: Bankim, Vivekananda: Nationalism	10
			SEC-1: Electoral Practice and Procedures in India	32	About Bankim Chandra	1
					About Vivekananda	1
			1)Electoral Process in India	5	Bankim: Nationalism	3
			2)Method of Conducting General Election	5	Vivekananda: Nationalism	3
			3)Election Commission of India: Composition, Structure and functions	6	Vivekananda: Man Making Concept	2
					Chapter -5: Gandhi: Satyagraha, Trusteeship.	8

July-December, 2021			4)Role of Chief Election Commissioner 5)Role of State Election Commission 6)Election Reforms in India	6 5 5	About Gandhi Satyagraha Trusteeship	1 4 3

	SEMESTER-II	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
January-June, 2022	**CC2/GE-2: Political Theory** **Chapter - 4**: Liberalism and Neo-Liberalism Definition of Liberalism Evolution of Liberalism Different types of Liberalism Features of Liberalism Neo-Liberalism Globalization: as an expansion of Liberalism **Chapter -5**: Theories of State: (a) Idealist (b) Liberal © Marxist (d) Gandhian Idealist Liberal Marxist Gandhian	**22** 11 1 2 3 2 2 1 10 2 3 3 2	**CC-4: Indian Government and Politics** **Chapter - 4**: Union Legislature: Lok Sabha and Rajya Sabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment Introduction to Parliamentary system Composition of Union Legislature, Composition of Lok Sabha and Rajya Sabha Functions of Lok Sabha and Rajya Sabha Comparison between Lok Sabha and Rajya Sabha Law-making Procedure the Speaker Procedure of Constitutional Amendment **Chapter -7**: Party system in India, Coalition Governments Party system in India	**30** 16 1 3 4 2 3 1 2 6 3 3 8 4	**DSE-1B: Understanding Globalization** **Chapter -3**: Globalization and Terrorism Globalization: Meaning Terrorism: Meaning Relations between Globalization and Terrorism **Chapter -4**: Globalization and new international order **Chapter - 5**: Globalization and Localization: Dimensions of cultural change Globalization and Localization Dimensions of cultural change Globalization and Culture **GE-2 Indian Government and Politics** **Chapter - 4**: Union Legislature: Lok Sabha and Rajya Sabha- Organization, Functions and Law-making Procedure; the Speaker;	**20** 9 **2** 3 4 5 6 2 2 2 **18** 18

January-June, 2022			Coalition Governments **Chapter -8**: Electoral Process: Election Commission and Electoral Reforms Electoral Process Election Commission of India Electoral Reforms	2 2	Procedure of Constitutional Amendment Introduction to Parliamentary system Composition of Union Legislature, Composition of Lok Sabha and Rajya Sabha Functions of Lok Sabha and Rajya Sabha Comparison between Lok Sabha and Rajya Sabha Law-making Procedure the Speaker Procedure of Constitutional Amendment	2 3 4 3 3 1 2

SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF SABIRUL ISLAM
Political Science (General) (July 2021 – June 2022)

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	N Le
July-December, 2020	**CC1/GE-1: Western Political Thought**	**12**	**CC-3/GE-3: Indian Political Thought**	**22**	**DSE-1A: Select Comparative Political Thought**	**7**
	Chapter-4		**Chapter-2**		**Chapter-3**	
	Hobbes, Locke and Rousseau: Concept of Sovereignty	12	**Main Features of Medieval Muslim Political Thought**	5	**C) Ambedkar on Social Justice**	**7**
	Concept of Sovereignty	4	Introduction to Medieval period	2	Introduction	**1**
	Hobbes's Concept of Sovereignty	3	Main Features of Muslim Political Thought	3	The concept of Social Justice	**2**
	Locke's Concept of Sovereignty	2	**Chapter-3**		Ambedkar as a Reformer	**2**
	Rousseau's Concept of Sovereignty	3	**Rammohan Roy: perception of British Colonial Rule and their role as Modernizers**	10	Ambedkar's concept of Social Justice	**2**
			Introduction to Rammohan Roy as thinker	2	**SEC-3: Democratic Awareness through Legal Literacy**	**60**
			His perception of Nationalism	2	**Chapter-1**	
			British Colonial Rule	2	**Constitution-fundamental rights, fundamental duties and other constitutional rights**	**20**
			Perception of British Rule	2		
			British's as modernizes	2		
			Chapter- 7 Ambedkar: Social Justice	7	Constitution and its importance	**3**
			Introduction	1	Fundamental rights	**8**
			The concept of Social Justice	2	Fundamental duties	5
			Ambedkar as a Reformer	2	Other constitutional rights	4
			Ambedkar's concept of Social Justice	2	Chapter-2	
					Laws relating to dowry, sexual harassment and	13

July-December, 2020					violence against women- laws relating to consumer rights and cyber crimes	
					Laws relating to dowry	3
					Sexual harassment	2
					Violence against women	4
					Consumer rights	2
					Cyber crime	2
					Chapter-3	
					Anti-Terrorist laws: Implication for security and human rights	12
					Anti-Terrorist Laws	4
					Implications for security	5
					Protection of human rights: how to be safe	3
					Chapter-4	
					System of Courts/ tribunals and their jurisdiction in India- criminal and Civil Courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunal	15
					System of courts	1
					Tribunals	1

					Jurisdiction of tribunals in India Civil and criminal courts Writ jurisdiction Specialized courts Juvenile courts Mahila courts Tribunals	2 3 4 1 1 1 1

	SEMESTER-IIs	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
	CC2/GE-2: Political Theory **Chapter -2** **The Concept of Sovereignty: a) Monistic b) Pluralist C)**	**20** 10	**CC-4/ GE-4 Indian Government and Politics** **Chapter – 5** **Union Executive: President and**	**20** 11	**SEC-4: Human Rights Education** **Chapter-1** **Meaning and a brief history of Human Rights (UDHR)**	**60** 12

January-June, 2021	**Popular** The concept of Sovereignty Monistic Sovereignty Pluralist Sovereignty Popular Sovereignty **Chapter-3 Liberty and Equality: Meaning and their inter-relationship** Introduction The concept of Liberty Dimensions of Liberty The concept of Equality Dimensions of Equality Relationship between Liberty and Equality	4 2 2 2 10 1 1 2 1 2 3	**Prime Minister: Powers and Functions; Governor and Chief Minister: Power and Functions** Introduction to Nominal Executive and Real Executive President Powers of the President Functions of the President Prime Minister Powers of Prime Minister Functions of the Prime Minister Governor Powers and Functions of Governor Chief Minister Powers and Functions of Chief Minister **Chapter -6 Judiciary: Supreme Court and High Courts-Compositions and Functions** Introduction to the Judicial System Supreme Court Composition of	1 1 1 1 1 1 1 1 1 10 2 1 1 1 2	Introduction to the UDHR The major points in the UDHR Human rights **Chapter-2 Human rights: Terrorism and counter terrorism** Human rights security issues Terrorism Counter terrorism Implications for human security **Chapter-3 Indian constitution and protection of human rights** Basic rights required to protect human rights The concept of fundamental rights and its fit nesses with human rights propounded by the UDHR **Chapter-4 National Human Rights Commission: composition and functions** Introduction to the NHRC Composition of NHRC Functions of	2 6 4 12 2 4 4 2 10 2 8 12 2 4 6 14
January-June, 2021						

			Supreme Court Functions of the Supreme Court High Court Composition of High Courts Functions of High Courts		NHRC **Chapter-5 Human rights movements in India: evolution, nature, challenges and prospects** Background to the human rights movements in India Human rights movements in India Evolutions of human rights movements in India Nature of Human rights movements in India Challenges of Human rights movements in India Prospects of Human rights movements in India	3 2 2 2 3 2

TEACHING PLAN (HONS. & GENL.) OF FACULTY MEMBERS OF DEPARTMENT OF PHYSIOLOGY FOR SESSION 2021-2022

DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. AMAL KUMAR PARI

Physiology (Honours) (July 2021 – June 2022)

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**

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**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**

			.			
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**

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. AMAL KUMAR PARI

Physiology (General/generic) (July2021– June 2022)

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:** **CC1B:**	2	**Theory:** **SEC1A:**	1

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

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. ARIJIT DEBNATH

Physiology (Honours) (July 2021 – June 2022)

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**

Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. ARIJIT DEBNATH

Physiology (General/generic) (July 2021 – June 2022)

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**

Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022

Debdina Ball

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

NUPUR PAUL

Physiology (Honours) (July 2021– June 2022)

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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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

NUPUR PAUL

Physiology (General/generic) (July 2021 – June 2022)

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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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

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Physiology (Honours)

(July 2021 – June 2022)

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 2021 – June 2022)

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** Metabolism: Pathophysiological significance of the following blood constituents: uric acid, cholesterol, bilirubin, SGPT and SGOT	**6**	**Theory** **DSE1B** 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**

COURSES COMPLETED:

1. Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022

2. Reresher Course on 'Emerging trends in Natural and Biological Sciences' (RC-18) under UGC-HRDC, University of North Bengal from 09.9.2022 to 22.9.2022

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

HAIMANTI CHATTERJEE

Physiology (Honours) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**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**	**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** **Class 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 Menstrual Cycle 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**
	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 2021 – June 2022)

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**	**2**	**Theory** **CC 1D:** **Revision**	**4**	**Theory** **DSE 1B:** **Revision**	**4**

	Practical **Practice** **Examination**	**2**	**Practical** **Practice** **Examination**	**2**	**Practical** **Practice** **Examination**	**2**

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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF HEMANTA SUTRADHAR
Geography (Honours) (2021-22) (July 2021 – June 2022)

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 : 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: Geomorphology**		**Theory** **CC7: GEOGRAPHY OF INDIA** **Unit 1: Geography of India**		**Theory** **CC-11. RESEARCH METHODOLOGY AND FIELD WORK** **Unit 1: Research**	

	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** **2**	7. Industrial development since independence. 8. Regionalisation of India: Views of Spate and Bhatt.	**2** **3**	**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 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) – Human Geography**		**Theory** **CC-10. ENVIRONMENTAL**		**Theory** **CC 14 : DISASTER**	

	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**	**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**	**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** 7. Types and patterns of	**2**	**Theory** **CC-10. ENVIRONMENTAL GEOGRAPHY** 4. Environmental Degradation and Pollution: Water and Air	**5**	**Theory** **CC 14 : DISASTER MANAGEMENT** **Unit 2:** 4. Fire: Factors,	**2**

	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**	**Practical** **CC-10: ENVIRONMENTAL GEOGRAPHY** 3. Quality assessment of soil using field kit: pH and NPK	**5**	vulnerability, consequences and management **DSE - 3 : RESOURCE GEOGRAPHY** **Unit 1:** 5. Resource Conservation : Principles and Methods 6. Concept of 'Limits to Growth'	**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) (2021-22) (July 2021 – June 2022)

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
Jan	**Sem-II (H)** **CC3 (Theory):** Unit 1 1. Nature, scope and recent trends of Human Geography **CC4 (Theory)** 1. Concepts of Cartograms and Thematic Maps	4 4	**Sem-IV (H)** **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	**Sem-VI (H)** **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 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	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,	5 5

	1. Concepts of Cartograms and Thematic Maps 2. Concept and utility of Isopleths and Choropleth,	3	and their Geographical Applications, Skewness (Pearson's Method) 2. Differences between Spatial and non-Spatial data,Nearest Neighbour Analysis	3	Structure, Organic Carbon and pH 4. Concept of Zonal, Azonal and Intrazonal Soil; Formation and Profile Characteristics of Laterite and Podsol	5
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	1 2	**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	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

	CC4 (Theory) 8. Interpretation of Land use and land cover maps **CC4 (Practical)** 2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.	1 2	Moment Correlation; Linear Regression 4. Time Series Analysis; 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) (2021-22) (July 2021 – June 2022)

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 GEOGRAPHY
TEACHING PLAN OF HEMANTA SUTRADHAR
Geography (GENERAL/GE) (2021-22) (July 2021 – June 2022)

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

Hemanta Sutradhar.

Department of Geography,
Suri Vidyasagar College

DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF CHAITALI GORAI
Geography (GENERAL/GE) (2021-22) (July 2021 – June 2022)

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** 6. Development of fluvial landforms	**3**	**Theory** **CC 1C:** **Human Geography** **Unit 1:** 7. Settlements: Types and Patterns of Rural Settlements: Practice classes	**5** **5**	**Theory** **DSE 1A :** **ECONOMIC GEOGRAPHY** **UNIT: 1** 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 Gorai
Ranajit Ghosh

Department of Geography,
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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF RANAJIT GHOSH
Geography (GENERAL/GE) (2021-22) (July 2021 – June 2022)

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:** 3. Plate Tectonics and its associated landforms **Practical** **CC1A Geomorphology and Cartography** **Unit 2:**	3	**Practical** **CC 1C:** **Unit II: Map Projection and Map interpretation** 2. Cylindrical Equal Area projection	2	**Practical** **SEC 1 – Computer Basics and Computer Applications** 2. Data Computation, Storing and Formatting in Spreadsheets:	5

	2. Proportional diagrams: Circles and squares	3			Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.	
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:**		**SEC-2: Regional Planning and Development**		**Theory** **DSE- 1B : Disaster Management**	

	5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	5	1. Definition of Region; Types of Regions	5	**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
Apr	**Theory** **CC 2** **Unit I:** 8. Biomes: Rainforest and Temperate Grassland.	5	**SEC-2: Regional Planning and Development** 5. Industrial Development in India Since 1990s 6. Planning Region: DVC	5 3	**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 6. Landslide: Causes, Consequences and Management	3
May	Practice classes	5	**SEC-2: Regional Planning and Development** 6. Planning Region: DVC 7. Preparation of Questionnaire on Sanitation and Health	2 5	**Theory** **DSE- 1B : Disaster Management** **UNIT: 1** 6. Landslide: Causes, Consequences and Management Practice classes	2 5
June	Special class	5	**SEC-2: Regional Planning and Development** 8. Preparation of	5	Special class	5

			Questionnaire on Waste Management			

Ranajit Ghosh

Department of Geography,
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Ranajit Ghosh

Head of the Department,
Department of Geography,
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DEPARTMENT OF ECONOMICS

TEACHING PLAN OF DR. KAKALI ADHIKARI

Economics (Honours & General) (2021-22) (July 2021 – June 2022)

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

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

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Economics

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

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

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

Head of the Department
Economics

DEPARTMENT OF ECONOMICS

TEACHING PLAN OF DR. LABANYA PAL

Economics (Honours & General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
July	**CC1:Introductory Microeconomics** Unit 3. Producer Behaviour: Production function	8	**CC6: Intermediate Macroeconomics** Unit1. Investment function	12	**CC11: International Economics** Unit 1. Trade: Ideas and Concepts	10
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** Unit2.Producer's Behaviour: Production function	7	**CC – 1C/GE3: Development Economics** Economic Growth:	3	**DSE 1A: Basic Statistics** **GE -1: Basic Economics** Unit 5. The National Income Accounting	10 6
August	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit 3. Producer Behaviour: Isoquant MRTS, producer's equilibrium–Output maximization -	8	**CC6: Intermediate Macroeconomics** Unit 2. The classical system	12	**CC11: International Economics** Unit 2. Pure Theory of Trade:	12
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** Unit2.Producer's Behaviour: Cost function	7	**CC – 1C/GE3: Development Economics** Economic Growth: **SEC1: Basic Computer Applications** (Theory + Practical)	5 (3+2)	**DSE 1A: Basic Statistics** **GE -1: Basic Economics** Unit 5. The National Income accounting	10 7
September	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit3.: Producer Behaviour: Elasticity of substitution, RTS, Cobb-Douglas and CES Production function	8	**CC6: Intermediate Macroeconomics** Unit 3. The Complete Keynesian model	12	**CC11: International Economics** Unit 2. Pure Theory of Trade:	12
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** Unit2. Producer's Behaviour: Revenue function	7	**CC – 1C/GE3: Development Economics** Economic Growth: **SEC1: Basic Computer Applications** (Theory + Practical)	5 (2+3)	**DSE 1A: Basic Statistics** **GE -1: Basic Economics** Unit 5. The National Income Accounting	10 7

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

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

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	Sem-II (H)	No. of Lecture	Sem-IV (H)	No. of Lecture	Sem-VI (H)	No. of Lecture
June	**CC3:** **Introductory Macroeconomics** Unit 6. Interaction between commodity market and money market (IS-LM model)	4	**CC9:** **Statistical Methods – II** Unit 8. Testing of Hypothesis:	8	**CC13:** **Basic Econometrics** Unit 5. Specification Analysis	7
	Sem-II (G)	**No. of Lecture**	**Sem-IV (G)**	**No. of Lecture**	**Sem-VI (G)**	**No. of Lecture**
	CC – 1B/GE2: **Macroeconomics** Supply of money – Different sources of money supply – M_1, M_2, M_3, and M_4 – functions of money	4	**CC – 1D/GE4** **Features of Indian Economy:** Unit 4. Industry:	4	**GE - 2:** **Indian Economic Development** Unit 2.2. Industry	4

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DEPARTMENT OF ECONOMICS

TEACHING PLAN OF PROF. RAMANANDA ROY

Economics (Honours & General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
July	**CC1:Introductory Microeconomics** Unit 1. General Concept	8	**CC6: Intermediate Microeconomics** Unit1. Imperfect Competition: Theory of monopoly	6	DSE 2 Public Economics Unit 1: Introduction to Public Finance	15
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** Unit1. Consumer's Behaviour: A. Utility	4	**CC – 1C/GE3: Development Economics** Poverty and Inequality	3	**DSE 1A:** Economic History of India: Unit 1: 1. Introduction:	10 6
August	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit2.Consumer Behaviour: The Marshallian Approach	4	**CC6: Intermediate Microeconomics** Unit 1. Imperfect Competition: Theory of monopoly-discriminating monopoly ,duopoly	6	DSE 2 Public Economics Unit 2: Principles of Taxation	15
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** Unit1. Consumer Behaviour: B. Indifference Curve approach	4	**CC – 1C/GE3: Development Economics** Poverty and Inequality- Gender Inequality – Gender Development Index	5 (3+2)	**DSE 1A:** Economic History of India: Unit 2 Macro Trends National Income; population	13
September	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit 2. Consumer Behaviour: Indifference curve approach	4	**Theory: CC6: Intermediate Microeconomics** Unit 2 &3. Theory of oligopoly & Factor Pricing	12	DSE 2 Public Economics Unit 3: Public Expenditure and Public Debt	15
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**

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	CC-1A/GE1 Microeconomics Unit1. Consumer Behaviour: Indifference curve approach	4	**CC – 1C/GE3:** **Development Economics** Poverty and Inequality: ; poverty measurement, SEC1:CC – 1D : Features of Indian Economy	5 (2+3)	**DSE 1A:** Economic History of India: Unit 3. Agriculture	10
October	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit2.Consumer Behaviour: Elasticities of demand	5	**CC6: Intermediate Microeconomics** Unit 1. Theory of Factor Pricing; wage, rent	8	DSE 2 Public Economics Unit 4. Compensatory Fiscal Policy:	12
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Microeconomics** **Unit1.** Elasticity of Demand	4	**CC – 1C/GE3:** **Development Economics** Poverty and inequality **SEC1:** CC – 1D Features of Indian Economy	7 (3+4)	**DSE 1A:** Economic History of India: Unit 4. Railways and Industry:	10 4
November	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1:Introductory Microeconomics Unit 2. Consumer behaviour Elasticities of demand	4	**CC6: Intermediate Microeconomics** Unit 4. General Equilibrium and Economic Welfare	8	DSE 2 Public Economics Unit 4. Compensatory Fiscal Policy	12
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**
	CC-1A/GE1 **Unit1C.Microeconomics** Elasticity of Demand	3	**CC – 1C/GE3:** **Development Economics** Poverty and inequality **SEC1:** CC – 1D Features of Indian Economy	7 (3+4)	**DSE 1A:** Economic History of India: Unit 5. Economy and State in the Imperial Context:	10 4
December	**Sem-I (H)**	**No. of Lecture**	**Sem-III (H)**	**No. of Lecture**	**Sem-V (H)**	**No. of Lecture**
	CC1: **Introductory Microeconomics** Unit 2. Consumer behaviour The Revealed Preferences approach	4	**CC6: Intermediate Microeconomics** Unit 4. General Equilibrium and Economic Welfare	10	DSE 2 Public Economics Unit 2: Principles of Taxation	7
	Sem-I (G)	**No. of Lecture**	**Sem-III (G)**	**No. of Lecture**	**Sem-V(G)**	**No. of Lecture**

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	CC-1A/GE1 **Microeconomics** **Unit1 C.** Elasticity of Demand	3	**CC – 1C/GE3:** **Development Economics** Poverty and inequality **SEC1:** CC – 1D Human resources and economy development:	4 (2+3)	**DSE 1A:** Economic History of India: Unit 5. Economy and State in the Imperial Context:	9
January	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	CC3: **Introductory Macroeconomics** Unit 1. Introduction:	5	**CC10:** Development Economics Unit 1 Economic Development	6	DSE 3 Political Economy Unit 1: Classical Economic Thoughts:	10
	Sem-II (G)		**Sem-IV (G)**		**Sem-VI (G)**	
	CC – 1B/GE2: **Macroeconomics** Unit 1. The National Income and products accounts	4	**CC – 1D/GE4** **Features of Indian Economy** Unit 2. Human resources and economy development:	4	**GE - 2:** **Indian Economic Development** Unit1. Meaning of Economic Development and Growth	8
February	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	CC3: **Introductory Macroeconomics** Unit 2. The National Income and products accounts: Defn. concept and measurement, methods of measurement.	5	**CC10:** Development economics Unit 2 Development and Underdevelopment as a Historical Process	15	DSE 3 Political Economy Unit 1: Classical Economic Thoughts	10
			SEC2: DSE 2 Public Economics	10		
	Sem-II (G)		**Sem-IV (G)**		**Sem-VI (G)**	
	CC – 1B/GE2: **Macroeconomics** Unit 1. The National Income and products accounts	4	**CC – 1D/GE4** Features of Indian Economy Unit 2. Human resources and economy development:	4	**GE - 2:** **Indian Economic Development** Meaning of Economic Development and Growth	8
March	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	
	CC3: **Introductory Macroeconomics** Unit 2. National Income accounting	5	**CC10:** Development economics: Unit 3. Persistence of Underdevelopment and Way to Develop	10	DSE 3 Political Economy Unit 1: Classical Economic Thoughts	10

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

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DEPARTMENT OF COMMERCE

TEACHING PLAN OF B.com (Honours)
(July 2021 – June 2022 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**
	CC-2:BUSINESS MANAGEMENT(1.3 CH)	**Unit-1**	**SPD**	**10**		**Unit2**	**KD**	**10**	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH)	**Unit-1** **Unit-2** **Unit-3**	**MLT** **KD** **BK**	**10** **10** **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**				
						Unit-2	**BH**	**6**				
					GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	**Unit-1**	**SPD**	**12**	DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH)	**Unit-1** **Unit-2**	**BK** **MLT**	**12** **8**
									OR			
									DSE-2: ADVERTISING (5.4.2 CH)	**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)	**Unit-2**	**BH**	**5**	CC-11: TAXATION-I (5.1 CH)	**Unit-1** **Unit-2**	**KD** **MLT**	**6** **5**
	CC-2:BUSINESS MANAGEMENT(1. 3 CH)	**Unit-2**	**SPD**	**10**	CC-6: COST ACCOUNTING-II (3.2 CH) CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)	**Unit-1** **Unit-2** **Unit-1** **Unit-2**	**MLT** **KD** **KD** **MLT**	**5** **10**	CC-12: AUDITING (5.2 CH) DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH) :	**Unit-2** **Unit-2** **Unit-1** **Unit-3**	**SPD** **KD** **MLT** **BK**	**15** **10** **10** **10**
	GE-1:BUSINESS MATHEMATICS(1. 4 CH)	**Unit-2** **Unit-1**	**BK** **BH**	**10** **10**	SEC-1 E-COMMERCE (3.4 CH) GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	**Unit-1** **Unit-2** **Unit-2**	**SPD** **BH** **SPD**	**10** **7** **10**	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-3** **Unit-3** **Unit-2** **Unit-2** **Unit-3**	**MLT** **BK** **BK** **MLT** **SPD** **BH**	**8** **10** **10** **8** **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)	**Unit-3**	**SPD**	**10**	CC-7: FINANCIAL ACCOUNTING- II (3.3 CH)	**Unit-3** **Unit-4**	**KD** **MLT**	**10** **10**	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH) OR	**Unit-5** **Unit-4** **Unit-3**	**KD** **MLT** **BK**	**12** **10** **8**
	GE-1:BUSINESS MATHEMATICS(1. 4 CH)	**Unit-3** **Unit-4**	**BK** **BH**	**10** **10**	SEC-1 E-COMMERCE (3.4 CH)	**Unit-3** **Unit-4**	**SPD** **BH**	**10** **10**	DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH)	**Unit-3**	**BK**	**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-4** **Unit-3**	**BK** **MLT** **SPD** **BH**	**13** **10** **7** **10**
Oct	CC1:FINANCIAL ACCOUNTING-I CC-2:BUSINESS MANAGEMENT(1. 3 CH) GE-1:BUSINESS MATHEMATICS(1. 4 CH)	Unit-5 Unit-4 **Revision** **Unit-3** **Unit-4** **Unit-4** **Unit-5A**	**MLT** **BK** **KD** **SPD** **BH** **BH** **BK**	**10** **10** **5** **10** **10** **1 0** **10**	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) CC-6: COST ACCOUNTING-II (3.2 CH) CC-7: FINANCIAL ACCOUNTING- II (3.3 CH) SEC-1 E-COMMERCE (3.4 CH) GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	Unit-4 **Unit-5** **Unit-4** **Unit-4** **Unit-5** **Unit-3** **Unit-4** **Unit-4**	**BH** **KD** **MLT** **MLT** **KD** **SPD** **BH** **SPD**	**10** **10** **10** **7** **10** **7** **7** **10**	CC-11: TAXATION-I (5.1 CH) CC-12: AUDITING (5.2 CH) 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-4 **Unit-3** **Unit-4** **Unit-4** **Unit-5** **Unit-3** **Unit-4** **Unit-4** **Unit-5**	**MLT** **KD** **SPD** **MLT** **KD** **BK** **BK** **BK** **MLT** **SPD** **BH**	**10** **10** **13** **10** **10** **8** **10** **13** **10** **6** **7**

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

	GE-1:BUSINESS MATHEMATICS(1.4 CH)	**Unit-5A** **Unit-5B**	**BH** **BK**	**5** **5**	SEC-1 E-COMMERCE (3.4 CH) GE-3: PRINCIPLES OF ECONOMICS (3.5 CH)	**Revision** **Revision** **Revision**	**SPD** **BH** **SPD**	**8** **7** **8**	INSURANCE (5.3.2 CH) DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CH) OR DSE-2: ADVERTISING (5.4.2 CH)	**Revision** **Revision** **Revision** **Revision**	**BK** **MLT** **BH** **SPD**	**6** **5** **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** **Unit-3**	**MLT** **KD** **BK**	**10** **10** **7**	CC-14: TAXATION-II (6.2 CH) Unit 1	**Unit-1**	**MLT**	**10**
	GE-2: BUSINESS STATISTICS (2.4 CH)	**Unit-1** **Unit2**	**BH** **BK**	**10** **10**	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** **Unit2** **Unit3**	**SPD** **MLT** **BK**	**10** **10** **10**

Feb	CC-3: COST ACCOUNTING-I (2.2 CH) CC-4: BUSINESS LAW (2.3 CH) GE-2: BUSINESS STATISTICS (2.4 CH)	**Unit-1** **Unit2** **Unit-1** **Unit-1** **Unit2**	**KD** **MLT** **SPD** **BH** **BK**	**10** **10** **10** **10** **10**	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-2** **Unit-5** **Unit-4** **Unit-3** **Unit-1** **Unit2** **Unit-2** **Unit-2**	**BK** **KD** **MLT** **BK** **BH** **SPD** **BK** **SPD**	**10** **10** **12** **10** **10** **10** **10** **13**	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-2** **Unit-1** **Unit-2** **Unit-2** **Unit1** **Unit-2** **Unit-1** **Unit2** **Unit3**	**MLT** **KD** **MLT** **BK** **KD** **MLT** **SPD** **MLT** **BK**	**10** **10** **10** **15** **10** **10** **15** **10** **10**
Mar	CC-3: COST ACCOUNTING-I (2.2 CH) : CC-4: BUSINESS LAW (2.3 CH)	**Unit-3** **Unit-4** **Unit2**	**KD** **MLT** **SPD**	**10** **10** **10**	GE-4: INDIAN ECONOMY (4.1 CH)	**Unit-3**	**BK**	**15**	CC- 13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) CC-14: TAXATION-II (6.2 CH)	**Unit-3** **Unit-4** **Unit-3**	**KD** **MLT** **MLT**	**10** **10** **10**

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

	GE-2: BUSINESS STATISTICS (2.4 CH)	**Unit-5** **Unit-4**	**BK** **BH**	**10** **10**	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-5** **Unit-4** **Unit-4** **Unit-4**	**SPD** **BH** **BK** **SPD**	**10** **10** **10** **7**	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-4** **Unit-5** **Unit-5** **Unit2** **Unit3**	**BK** **MLT** **KD** **SPD** **MLT** **BK**	**10** **7** **10** **10** **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)	**Unit-4** **Unit-5** **Unit-4** **Unit-3** **Unit-5** **Unit-4** **Unit-5**	**BK** **KD** **MLT** **BK** **SPD** **BH** **BK**	**10** **10** **10** **7** **10** **10** **10**	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	**Unit-4** **Unit-5** **Unit-5** **Unit-5** **Unit-4** **Unit-5**	**MLT** **KD** **MLT** **BK** **MLT** **KD**	**5** **5** **8** **7** **7** **7**

									CH)			
					CC-10: CORPORATE LAWS (4.5 CH)	**Unit-5**	**SPD**	**10**	DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)	**Unit-5** **Unit12** **Unit13**	**SPD** **MLT** **BK**	**7** **8** **7**
June	CC-3: COST ACCOUNTING-I (2.2 CH)	**Unit-5**	**MLT**	**10**	GE-4: INDIAN ECONOMY (4.1 CH)	**Revision**	**BK**	**5** **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** **Revision**	**KD** **MLT** **BK** **KD**	**5** **5** **5**	CC-14: TAXATION-II (6.2 CH)	**Revision**	**MLT**	**5**
	GE-2: BUSINESS STATISTICS (2.4 CH)	**Revision** **Revision** **BK**	**BH**	**5** **5**	CC-9:MARKETING MANAGEMENT AND HUMAN RESOURCE MANAGEMENT (4.3 CH)	**Revision** **Revision**	**SPD** **BH**	**5** **5**	DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH) OR DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2	**Revision** **Revision** **Revision**	**BK** **KD** **MLT**	**10** **10** **10**
					SEC-2:							

					ENTREPEURSHIP (4.4 CH) CC-10: CORPORATE LAWS (4.5 CH)	**Revision** **Revision**	**BK** **SPD**	**5** **8**	CH) DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)	**Revision** **Revision** **Revision**	**SPD** **MLT** **BK**	**10** **7** **7**

Head of the Department,
Department of Commerce
Suri Vidyasagar College

DEPARTMENT OF COMMERCE

TEACHING PLAN OF B. Com. (General)

(July 2021 – June 2022 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**				
					SEC-1:E-COMMERCE (3.4 CG)	Unit1	**SPD**	**10**	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG)	Unit1	**MLT**	**10**
						Unit-2	**BH**	**12**		Unit-2	**KD**	**10**
									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-3	**SPD**	**10**		Unit-4	**KD**	**10**				
	CC-2:BUSINESS MANAGEMENT (1.3 CG)								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**
		Unit-4	**SPD**	**12**		Unit-5	**MLT**	**8**	CC-10:AUDITING (5.2 CG)	Unit-5	**SPD**	**10**
	CC-2:BUSINESS MANAGEMENT (1.3 CG) Unit 4: Staffing and Leading				CC-6: FINANCIAL ACCOUNTING- II (3.2 CG)	Unit-4	**KD**	**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-5	**BH**	**10**
									DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG)	Unit-5	**BK**	**7**
									OR			
									DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG)	Unit-5	**SPD**	**10**
Dec	CC-1:FINANCIAL ACCOUNTING-I (1.2 CG)	Unit-4	**BK**	**10**	CC-5: COST ACCOUNTING- II (3.1 CG)	Revision	**KD**	**8**	CC-9: TAXATION-I (5.1 CG)	Revision	**MLT**	**6**
		Unit-5	**KD**	**10**		Revision	**MLT**	**5**	Unit 1	Revision	**KD**	**7**
		Revision	**MLT**	**5**		Revision	**BK**	**7**		Revision	**SPD**	**7**
									CC-10:AUDITING	Unit-5	**SPD**	**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 Revision	**MLT** **KD**	**8** **7**
					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	**BH**	**8**
									DSE-2:INDIAN FINANCIAL SYSTEM (5.4.1 CG) OR	Revision	**BK**	**7**
									DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG)	Revision	**SPD**	**8**
Jan	**Sem-II (H)**				**Sem-IV (H)**				**Sem-VI (H)**			
	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**
	CC-4: COST	Unit-1 Unit-2	**KD** **MLT**	**10** **10**	SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL)	Unit-1	**BH**	**4**				

	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: TAXATION-	Unit-2 Unit-3 Unit-2 Unit-3 Unit-2 Unit-3	**BH** **BK** **BH** **KD** **BK** **MLT**	**10** **12** **10** **10** **10** **10**

									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**				
		Unit-3	**KD**	**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-4	**MLT**	**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	**BH** **BK** **BH** **KD** **BK** **MLT** **KD** **SPD** **MLT** **MLT** **KD**	**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	**BH** **BK** **BH** **KD** **BK** **MLT** **KD** **SPD** **MLT** **MLT** **KD**	**10** **12** **10** **10** **10** **10** **10** **10** **10** **10** **13**

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

Head of the Department,
Department of Commerce
Suri Vidyasagar College

DEPARTMENT OF ARABIC

TEACHING PLAN OF WASIM REJA

Arabic (Honours)&Gen (2021-22) (July 2021 – June 2022)

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**	**3** **3** 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** Unit 1: Pre-Islamic Period (500-622 A. D.	2	**Theory:** **CC1C: Prose :(Islamic medieval & modern period)** **2** **Unit :6 Sura Hujrat** **Unit:7 Sahih Hadith** **SEC1:** Grammar ,translation & latter writing Unit 1	1		**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)** CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A	**4** **3**		**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	**4** **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 DSE-1B Outline History of Modern Arab World	**2** **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)** **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)	**2** **2** **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)** 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** **4**		**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	**3** **3**
	CC4: Arabic Prose (Islamic & Medieval) (Part-B) Unit 1: خطبة عمر (رض) في الحكم Unit 3:القضاء و القدر	**3**	**CC10:** Development ofModern Arabic Novel, short-story, Drama & Formation of Literary Groups **A & B**	**2**		**Theory:** **DSE3:** Outline History of Modern Arab World & Composition Group-A	**3**
	Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference toIbn-		**SEC2:** Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: **2** **Theory:** CC1D: Poetry : (Islamic, medieval, & Modern Period) 1) حسان بن ثابت وقال يرثي النبي صلى الله	2		DSE-1B Outline History of Modern Arab World	**2**

	ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan 2			عليه وسلم الحماسة العباس بن مرداس السلمي (5 **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	3 3 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 2 **SEC2:** Grammar ,translation & latter writing Unit-a) 2	**3** **3** **5** 2 2 2	**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** **3** **2**
Apr	**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		**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)	**4** **3** **4** 3 2	**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** **3** **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** 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** 2 2	**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** 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)	3 3 4 2 2 2 2	**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 ARABIC

Teaching plan of Dr. MOHD MOATASIM
B.A. Arabic (Hons. & Genl.) session July 2021– June 2022

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

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

DEPARTMENT OF ARABIC

TEACHING PLAN OF SYED BASIR AL HILAL
ARABIC (Honours) (2021-22) (July 2021 – June 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	CC-1: History of Arabic literature (from pre Islamic to Islamic period) gram. & trans. Unit-A.2 Al-Quran, Al-Hadith CC-2: Arabic Prose (Islamic & medieval) Unit- 2 Sura Bani Israil GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: Islamic Period & Umayyad Period. 1) Al-Quran	3 3 2	CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period) Unit 1: Muallaqa Imrul Qayes CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(a) Andalusia Period GE-3: Prose (Islamic, Medieval & Modern Period) Unit- 3: Salman Al-farsi	3 3 2	CC-11: PROSE (Modern Period Unit -1) Awalul Ahd Bi Yasrab CC-12: POETRY (Modern Period Unit -1) Sadal Harb DSE-1(History Of Islam,Rhetoric, Prosody & Philology) Tashbih & Its Division, Majaz Mursal & Aqli DSE-1A (Rhetoric, Prosody) Tashbih & Its Division, Majaz	2 2 2 2
Aug	CC-1: History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans. Unit-A.2 Al-Khansa, Hasaan Bin Thabit CC-2: Arabic Prose (Islamic & medieval) Unit- 2 Sura Bani Israil GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: Islamic Period & Umayyad Period. 2) Al-Hadith	3 3 2	CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period) Unit 1: Muallaqa Imrul Qayes CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(a) Andalusia Period GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 3: Salman Al-farsi	3 3 2	CC-11:PROSE (Modern Period Unit -1) Unit 1: Awalul Ahd Bi Yasrab CC-12: POETRY (Modern Period Unit -1) Al-hamziyatun Nababiyah DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) Ista'arah & Its Division, Kinayah DSE-1A (Rhetoric, Prosody) Ista'arah & Kinayah	2 2 2 2
Sept	CC-1: History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans. Unit-A.2 Umar Bin Abi Rabiah, Al-Akhtal	3	CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period) Unit 1: Muallaqa Labid Bin Rabeya CC-6: History of Arabic literature (Spain) gram. & trans.	3 3	CC-11: PROSE (Modern Period Unit -1) Awalul Ahd Bi Yasrab CC-12: POETRY (Modern Period Unit -1) Al-hamziyatun	2 2

	CC-2: **Arabic Prose** (Islamic & medieval) Unit- 5 **Salman Al-farsi** GE-1: **History of Arabic literature** (from pre Islamic to Islamic period) Unit- B: **Islamic Period & Umayyad Period.** **3) Al-Khansa**	3 2	Unit: A(b) **Ibne Abde Rabbihi, Ibne Khaldun** **GE-3: Prose(Islamic, Medieval & Modern Period)** Unit- 4: **Ashab-e-fil**	2	**Nababiyah** DSE-1: **(History Of Islam,Rhetoric, Prosody & Philology)** **Jinas & Tawriyah** DSE-1A **(Rhetoric, Prosody)** **Jinas & Tawriyah**	2 2
Oct	CC-1: **History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans.** Unit-A.2 **Al-Farazdaq** CC-2: **Arabic Prose** (Islamic & medieval) Unit- 5 **Salman Al-farsi** GE-1: **History of Arabic literature** (from pre Islamic to Islamic period) Unit- B: **(Islamic Period & Umayyad Period)** **4) Hassan Bin Thabit**	2 2 2	**CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period)** Unit 1: **Muallaqa Labid Bin Rabeya** **CC-6: (History of Arabic literature (Spain) gram. & trans)** Unit: A(b) **Ibne Abde Rabbihi, Ibne Khaldun** **GE-3: Prose(Islamic, Medieval & Modern Period)** Unit- 4: **Ashab-e-fil**	3 3 2	CC-11: **PROSE** **(Modern Period Unit -1)** **Hinan-E-Ab** DSE-1: **(History Of Islam,Rhetoric, Prosody & Philology)** **Itnab, Eijaz** DSE-1A **(Rhetoric, Prosody)** **Ilme Arouz ,Sabab, Watad, Fasilah**	3 3 2
Nov	CC-1: **History of Arabic literature (From Pre Islamic To Islamic Period) Gram. & trans.** Unit-A.2 **Jarir** CC-2: **Arabic Prose** (Islamic & medieval) Unit- 5 **Salman Al-farsi** GE-1: **History of Arabic literature** (From Pre Islamic To Islamic Period) Unit- B: **Islamic Period & Umayyad Period.** **5) Al- Akhtal**	2 2 2	**CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period)** Unit 1: **Muallaqa Imrul Qayes** Special class **CC-6: History of Arabic literature (Spain) gram. & trans.** Unit: A(b) **Ibnul Khatib** **GE-3: Prose(Islamic, Medieval & Modern Period)** Unit- 3: **Salman Al-farsi** **Special class**	3 2 2	CC-11: **PROSE** **(Modern Period Unit -1)** **Hinan-E-Ab** DSE-1: **(History Of Islam,Rhetoric, Prosody & Philology)** **Ilme Arouz , Maqta'a, Arkaan,Zihaf** DSE-1A **(Rhetoric, Prosody)** **Arkan, Bahre Kamil**	2 4 2

Dec	CC-1: **History of Arabic literature (From Pre Islamic To Islamic Period) Gram. & trans.** Unit-A.2 **Special Class** CC-2: **Arabic Prose** (Islamic & medieval) Unit- 5 **Salman Al-farsi** GE-1: **History of Arabic literature** (From Pre Islamic To Islamic Period) Unit- B: **Islamic Period & Umayyad Period.** **6) Al-Farazdaq, Jarir**	2 2 2	**CC-5: POETRY (Pre-Islamic, Islamiv & Umaiya Period)** Unit 1: **Muallaqa Labid Bin Rabeya** Special class **CC-6: History of Arabic literature (Spain) gram. & trans.** Unit: A(c) **Ibne Zaidun, Ibne Hani** **GE-3: Prose(Islamic, Medieval & Modern Period)** Unit- 4: **Ashab-e-fil Special class**	3 3 2	CC-11: **PROSE (Modern Period Unit -1) Awalul Ahd Bl Yasrab** Special class CC-12: **POETRY (Modern Period Unit -1)** Special class DSE-1: **(History Of Islam,Rhetoric, Prosody & Philology) Illat, Bahr, Taqtie** DSE-1A **(Rhetoric, Prosody) Bahre Tavil & Taqtie**	1 1 2 2
	Sem-II (H)		**Sem-IV (H)**		**Sem-VI (H)**	
Jan	**CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit- A.c **Indian Arabic Scholars** Gulam Ali Azad CC-4: **Arabic Prose** (Islamic & medieval) Unit- 1 **Khutbatu Umar fil hikam** **GE-2: History of Arabic literature (Abbasid period) gram. & trans.** Unit- A(2): **Abbasid Period(poetry)** **1) Bashshar Bin Burd**	2 3 2	CC-8: **POETRY (Abbasid & Fatimid)** Unit 1: **Ibne Rumi** CC-9: **History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans.** Unit: 1(a) **Rabita Qalamiya, Jibran Khalil Jibran** **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Unit-2: Walahu Fil Waz**	2 3 2	CC-13: **PROSE (Modern Period Unit -2) Ad-Dafin As-Sagir** CC-14: **POETRY (Modern Period Unit -2) Sakran** DSE-3: **(Outline History Of Modern Arab World)** Unit-1: **Kuwait** **SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile) History Of Mahjary Literature**	2 2 2 2
Feb	**CC-3: History of Arabic Literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit-1: Islamic Period & Umayyad Period **Shah Waliullah**	2	CC-8: **POETRY (Abbasid & Fatimid)** Unit 1: **Ibnu Farid** CC-9: **History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans.** Unit: 1(a) Mikhail Nuaimah & Iliya Abu	2 3	CC-13: **PROSE (Modern Period Unit -2) Ad-Dafin As-Sagir** CC-14: **POETRY (Modern Period Unit -2) Usfurul Jannat** DSE-3: **(Outline History Of Modern Arab**	2 2

	CC-4: **Arabic Prose**(Islamic & medieval) Unit- 2 **Muamiratu Quraish** **GE-2: History of Arabic literature(Abbasid period) gram. & trans** Unit- A(2): **Abbasid Period(poetry)** **2) Abu Nuwas**	3 2	Madi **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Unit-2: Walahu Fil Waz**	2	**World)** Unit 2: **Jordan** **SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile)** **Rabita Qalamiya, Jibran Khalil Jibran**	2 2
Mar	**CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit- A.c **Indian Arabic Scholars** Abdul Hai Husaini CC-4: **Arabic Prose**(Islamic & medieval) Unit- 1 **Special class** **GE-2: History of Arabic literature(Abbasid period) gram. & trans** Unit- A(2): **Abbasid Period(poetry)** **1) Abul Atahiya**	3 2 2	CC-8: **POETRY (Abbasid & Fatimid)** Unit 1: **Ibnu Farid** CC-9: **History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans.** Unit: 1(b) **Al- asabatul Undulisiya , Al-khouri** **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Unit-2: Ala Fi Sabilil Majd**	2 3 2	CC-13: **PROSE** **(Modern Period Unit -2)** **Bainal Ams Wal Yaom** CC-14: **POETRY** **(Modern Period Unit -2)** Unit 1: **Sakran** **Special class** DSE-3:**(Outline History Of Modern Arab World)** Unit 3: **UAE** **SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile)** Mikhail Nuaimah & Iliya Abu Madi	2 2 2 2
Apr	**CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit- A.c **Indian Arabic Scholars** Abul Hasan An-nadvi CC-4: **Arabic Prose**(Islamic & medieval) Unit- 2 **Special class** **GE-2: History of**	3 2	CC-8: **POETRY (Abbasid & Fatimid) (North & South America/Adabul Mahjar) Gram. And Trans.** Unit 1: **Ibnu Farid** CC-9: **History of Arabic literature** Unit: 1(b) **Al- asabatul Undulisiya , Fauzi Maluf** **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Unit-2: Ala Fi Sabilil Majd**	2 3	CC-13: **PROSE** **(Modern Period Unit -2)** **Bainal Ams Wal Yaom** CC-14: **POETRY** **(Modern Period Unit -2)** **Usfurul Jannat** Special class DSE-3: **:(Outline History Of Modern Arab World)** Unit 4: **Bahrain** **SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile)** **Al- asabatul**	2 2 2 2

	Arabic literature(Abbasid period) gram. & trans Unit- A(2): **Abbasid Period(poetry)** **4) Abu Tammam**	2			**Undulisiya ,Mishal Ma'louf**	
May	**CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit- A.c **Indian Arabic Scholars** Nawab Siddiq Hasan **GE-2: History of Arabic literature(Abbasid period) gram. & trans** Unit- A(2): **Abbasid Period(poetry)** **5) Al-Mutanabbi**	3 3	CC-8: **POETRY (Abbasid & Fatimid)** Unit 1: **Ibnul Farid** **Special class** CC-9: **History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans.** Unit: 1(b) **Special class** **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Special class**	2 3	CC-13: **PROSE** **(Modern Period Unit -2)** **Madaniyatul Islamiyah** DSE-3: **:(Outline History Of Modern Arab World)** Unit 5: **Lebanon** **:(Specialy Literay Feature Of Modern Arabic Literature in Exile)** **Al-khouri,Ilyas Farhat**	3 2 2
June	**CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.** Unit- A.c **Indian Arabic Scholars** Al-Masumi **GE-2: History of Arabic literature(Abbasid period) gram. & trans** Unit- A(2): **Abbasid Period(poetry)** **6) Al-Marri**	3 2	CC-8: **POETRY (Abbasid & Fatimid)** Unit 1: **Ibnur Rumi** **Special class** CC-9: **History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans.** Unit: 1(a) **Special class** **GE-4: Poetry (Islamic, Medieval & Modern Period)** **Special class**	2 3	CC-13: **PROSE** **(Modern Period Unit -2)** **Madaniyatul Islamiyah** DSE-3: **(Outline History Of Modern Arab World)** Special class **SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile)** **Special class**	2 3 2

Syed Basir Al Hilal
Department of Arabic,
Suri Vidyasagar College

DEPARTMENT OF PHYSICAL EDUCATION

TEACHING PLAN OF Mr. Aditya Mondal

Physical Education (General) (2021-22) (July 2021 – June 2022)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	**THEORY** **CC1A: History of Physical Education** **Unit-III:Historical Development of Physical education and sports in India pre-Independence period and post-Independence period.** **Olympic Movement-Ancient Olympic Games and** **PRACTICAL** **CC1A: Development of Physical Fitness through Calisthenics and Aerobic activities.**	8 2	**THEORY** **CC1C: Circulatory System** **Unit III: Blood- Composition and function.** **Heart- Structure and functions. Mechanism of blood circulation through heart.** **PRACTICAL** **CC1C: LAB PRACTICAL** **Assessment of Heart rate** **THEORY** **SEC1: Field events** **Long Jump, High Jump, Shot Put**	8 2 3	**THEORY** **DSE1: Fitness Test** **Unit III: Kraus-Weber Muscular Strength Test.** **AAHPER Youth Fitness Test.** **THEORY** **DSE1: LAB & FIELD** **Unit: Assessment of AAHPER Youth Fitness Test** **THEORY** **SEC3: Indian Games** **KABADDI and KHO-KHO** **GE1:History of Physical Education** **Historical development of Physical Education and Sports in India- Pre-Independence period and Post-Independence period.**	6 2 4 3
Aug	**THEORY** **CC1: History of Physical Education** **Unit:III: Modern Olympic Games.** **Brief historical background of Asian Games and Commonwealth Games.** **National Sports Awards-Arjuna Award, Rajiv Gandhi Khel Ratna Award, Dronacharya Award.** **PRACTICAL** **CC1A: Development of Physical Fitness through Calisthenics and Aerobic activities**	8 2	**THEORY** **CC1C: Circulatory System** **Unit III: Heart- Structure and functions. Mechanism of blood circulation through heart.** **PRACTICAL** **CC1C: Assessment of Heart rate, Blood Pressure** **THEORY** **SEC1: Field event** **Discuss Throw, Javelin Throw**	5 2 2	**THEORY** **DSE1: Fitness Test** **Unit -III: Queens College Step Test, Harvard Step Test** **THEORY** **DSE1: LAB & FIELD** **PRACTICAL** **Unit: Assessment Harvard Step Test** **THEORY** **SEC3: Racket Sports** **BADMINTON** **Theory** **GE1: Ancient Olympic Games Modern Olympic Games.**	2 2 2 4
Sept	**THEORY** **CC1 Yoga Education** **Unit: Meaning and definition of the term Yoga, types, aim, objectives and important of Yoga.** **History of Yoga.** **PRACTICAL** **CC1: Development of physical fitness through Callisthenics and Aerobic activities**	5 2	**THEORY** **CC1C: Circulatory System** **Unit III: Blood Pressure, Athletic Heart and Bradycardia.** **PRACTICAL** **CC1C: Assessment of Heart rate, Blood Pressure, Respiratory Rate,** **PRACTICAL** **SEC1: Track and Field** **Long Jump and High jump:**	6 2 2	**THEORY** **DSE1: Sports Skill Test** **Unit IV: Lockhart and McPherson Badminton Skill Test,** **Johnson Basketball Test Battery** **PRACTICAL** **DSE1: FIELD PRACTICAL** **Unit: Assessment of AAHPER Youth Fitness Test** **SEC3: Racket Sports** **BADMINTON** **GE1:**	4 2 2

Oct	**THEORY** **CC1: Yoga Education** **Unit: IV: Astanga Yoga** **PRACTICAL** **CC1: Development of physical fitness through Callisthenics and Aerobic activities**	**4** **2**	**THEORY** **CC1C: Circulatory System and Respiratory System** **Unit III and IV: Effect of exercise on circulatory system.** **Structure.** **PRACTICAL** **CC1C: Assessment of Heart rate, Blood Pressure, Respiratory Rate, and Pick Flow Rate.** **PRACTICAL** **SEC1: Field events** **Shot put: Holding the Shot, Placement, Initial Stance, Glide, Delivery Stance and Recovery (Perry O'Brien Technique).**	**4** **2** **2**	**THEORY** **DSE1: Sports Skill Test** **Unit-IV:McDonald Soccer Test,** **Brady Volleyball Test** **PRACTICAL** **DSE1: FIELD PRACTICAL** **Unit: Harvard Step Test** **SEC3: Indian Games** **KABADDI** **GE1: Asian Games**	**3** **2** **2** **2**
Nov	**Theory: CC1: Yoga Education** **Unit -IV: Hatha Yoga** **Practical** **CC1: Development of physical fitness through Callisthenics and Aerobic activities** **Practice classes**	**3** **2**	**Theory: Respiratory System** **Unit IV: function of Respiratory organs.** **Mechanism of Respiration.** **PRACTICAL** **CC1C: LAB PRACTICAL** Assessment of Heart rate, Blood Pressure, Respiratory Rate, and Pick Flow Rate **PRACTICAL** **SEC1: Field events** **Discus Throw: Holding the Discus, Initial Stance, Primary Swing, Turn, Release and Recovery.**	**6** **2** **2**	**PRACTICAL** **DSE1: Fitness Test** **Kraus-Weber Muscular Strength Test** **AAHPER Youth Fitness Test** **Queens College Step Test** **Harvard Step Test** **PRACTICAL** **DSE1: FIELD** **PRACTICAL** **Unit AAHPER Youth Fitness Test** **SEC3: Indian Games** **KHO-KHO** **GE1:Exercise Sciences** **Unit-IV:Meaning, definition and importance Exercise and Exercise Physiology.** **Effects of short and long term exercise on Muscular systems.**	**4** **1** **1** **3**
Dec	**THEORY** **CC1: Unit: III & IV: History of Physical Education and Yoga Education** **Special classes + doubt clearing+ discussions** **Practical** **CC1: Development of physical fitness through Callisthenics and Aerobic activities** **Practice classes**	**10** **4**	**THEORY** **CC1C: Respiratory System** **Unit IV: Vital Capacity, O2 Debt and Second Wind.** **Effect of exercise on respiratory system.** **Practical** **CC1C: Assessment of Heart rate, Blood Pressure, Respiratory Rate, and Pick Flow Rate.** **PRACTICAL** **SEC1: Field events** **Javelin Throw: Grip, Carry, Release and Recovery.**	**3** **2** **2**	**PRACTICAL** **DSE1: Sports Skill Test** **Unit- IV: Lockhart and McPherson Badminton Skill Test** **Johnson Basketball Test** **Battery McDonald Soccer Test** **Brady Volleyball Test** **PRACTICAL** **DSE1: FIELD** **PRACTICAL** **Harvard Step Test** **SEC3: Racket Sports** **BADMINTON** **GE1:Exercise Sciences** **Unit-IV: Effects of short and long term exercise on Circulatory System,** **Effects of short and long term exercise on Respiratory System.**	**4** **1** **1** **3**
Jan	**Sem-II (G)**		**Sem-IV (G)**		**Sem-VI (G)**	
	THEORY		**THEORY**		**THEORY**	

	CC1B:TOURNAMENTS **Unit II: Tournaments: Meaning and definition and types of tournaments (Knock-out, League, Combination, Challenge).** **PRACTICAL** **CC1B: FIELD PRACTICAL** **Games: Football**	**10** **4**	**CC1D: PHYSICAL FITNESS AND WELLNESS** **Unit III: Physical Fitness- Meaning, definition and Importance of Physical Fitness.** **Components of Physical Fitness- Health and Performance related Physical Fitness.** **PRACTICAL** **CC1D: LAB PRACTICAL** **First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica.** **THEORY** **SEC2: GYMNASTICS** **Forward Roll** **T-Balance**	**6** **2** **2**	**DSE2: PSYCHOLOGICAL FACTORS** **Unit-III:Motivation- Meaning, definition, type and importance of Motivation in Physical Education and Sports,** **Emotion- Meaning, definition, type and importance of Emotion in Physical Education and Sports.** **PRACTICAL** **DSE2:LAB PRACTICAL** **Assessment of Personality** **SEC4: FOOTBALL** **Fundamental Skills** **GE2: HEALTH AND FIRST-AID MANAGEMENTS** **Unit - II: First aid- Meaning, definition, importance and golden rules of First-aid,** **Concept of sports injuries- Sprain, Strain, Facture and Dislocation.**	**5** **2** **2** **3**
Feb	**THEORY** **CC1B:TOURNAMENTS** **Unit II: Procedure of drawing fixture., Method of organising Annual Athletic Meet and Play Day** **PRACTICAL** **CC1B: FIELD PRACTICAL** **Games: Kabaddi**	**6** **4**	**THEORY** **CC1D: PHYSICAL FITNESS AND WELLNESS** **Unit-III: Concept of Wellness. Relationship between Physical activities and Wellness.** **Ageing- Physical activities and its importance.** **PRACTICAL** **CC1D: LAB PRACTICAL** **First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica.** **THEORY** **SEC2: GYMNASTICS** **Forward Roll with Split leg Backward Roll** **Cart-Wheel**	**5** **2** **3**	**THEORY** **DSE2:PSYCHOLOGICAL FACTORS** **Unit-III: Personality- Meaning, definition and type Personality traits,** **Role of physical activities in the development of personality.** **PRACTICAL** **DSE2: LAB PRACTICAL** **Assessment of Stress and Anxiety.** **SEC4: FOOTBALL** **Fundamental Skills** **GE2: Health and First-aid Managements** **Unit-II: Postural deformities- Causes and corrective exercise of Kyphosis, Lordosis, Scoliosis, Knock Knees and Flat Foot,** **Hypo-kinetic Diseases and Physical Activities- Obesity and Diabetes.**	**4** **2** **2** **4**

Mar	**THEORY** **CC1B:** **TOURNAMENTS** **Unit II: Method of organising of Intramural and Extramural competition. Practical** **CC1B: FIELD** **PRACTICAL** **Games: Kho-Kho**	**4** **4**	**THEORY** **CC1D: HEALTH AND FIRST-AID MANAGEMENT** **Unit IV: First aid- Meaning, definition, importance and golden rules of First-aid.** **Concept of sports injuries- Sprain, Strain, Facture and Dislocation.** **PRACTICAL** **CC1D:** **First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica.** **THEORY** **SEC2: GYMNASTICS** **Unit 2: OPTIONAL** **Dive and Forward Roll** **Hand Spring** **Head Spring**	**5** **4** **2**	**THEORY** **DSE2: STRESS AND ANXIETY** **Unit-IV: Stress- Meaning, definition and types of Stress. Causes of Stress.** **PRACTICAL** **DSE2: Assessment of Personality, Stress and Anxiety** **SEC4: FOOTBALL** **Fundamental Skills** **THEORY** **GE2: Fitness Test** **Unit-IV: Kraus-Weber Muscular Strength Test, AAHPER Youth Fitness Test.**	**3** **2** **2** **2**
Apr	**THEORY** **CC1B: LEADERSHIP** **Unit IV: Meaning and definition of leadership. Qualities of good leader in Physical Education. Practical** **CC1B: FIELD** **PRACTICAL** **Games: Volleyball**	**8** **4**	**THEORY** **CC1D: HEALTH AND FIRST-AID MANAGEMENT** **Unit IV: Management of sports injuries through the application of Hydro-therapy and Thermo-therapy** **PRACTICAL** **CC1D: LAB PRACTICAL** **Unit: Practical knowledge on Hydro-therapy and Thermo-therapy.** **THEORY** **SEC2: GYMNASTICS** **Unit: OPTIONAL** **Neck Spring** **Hand Stand and Forward Roll** **Summersaul**	**4** **2** **2**	**THEORY** **DSE2: Stress and Anxiety** **Unit- IV: Anxiety- Meaning, definition and types of Anxiety.** **Management of Stress and Anxiety through physical activity and sports.** **PRACTICAL** **DSE2: LAB PRACTICAL** **Measurement of Reaction Time** **SEC4: VOLLEYBALL** **Fundamental skills** **THEORY** **GE2:FITNESS TEST** **Unit-IV: Queens College Step Test** **, Harvard Step Test**	**4** **2** **2** **2**
May	**THEORY** **CC1B: LEADERSHIP** **Unit IV: Principles of leadership activities. Hierarchy of Leadership in School, College and University level.** **PRACTICAL** **CC1B: FIELD PRACTICAL** **Games: Football, Kabaddi and Kho-Kho**	**6** **6**	**THEORY** **CC1D: HEALTH AND FIRST-AID MANAGEMENT** **Unit IV: Management of sports injuries through the application of Exercise and Massage therapy.** **PRACTICAL** **CC1D: LAB PRACTICAL** **Practical knowledge on Hydro-therapy and Thermo-therapy.** **Repeat practical Class** **PRACTICAL** **SEC2: GYMNASTICS** **Forward Roll with Split leg Backward Roll** **Cart-Wheel Dive and Forward Roll** **Hand Spring** **Head Spring**	**4** **2** **3**	**THEORY** **DSE2:PSYCHOLOGICAL FACTORS** **Unit-III:Psychological Factors** **Repeat practical Class** **PRACTICAL** **DSE2: LAB PRACTICAL** **Measurement of Depth Perception and Mirror Drawing** **SEC4: VOLLEYBALL** **Fundamental skills** **PRACTICAL** **GE2: FITNESS TEST** **Unit-IV: Kraus-Weber Muscular Strength Test, AAHPER Youth Fitness Test.**	**3** **2** **2** **6**

June	**THEORY** **CC1B: Tournaments and Leadership** **Special class** **PRACTICAL** **CC1B:** **Games: Kho-Kho and Volleyball**	**6** **4**	**THEORY** **CC1D: Physical Fitness and Wellness and Health and First-aid Management** **Unit: III and IV** **Special class** **PRACTICAL** **CC1D: LAB PRACTICAL** **First-aid Practical- Triangular Bandage: Slings (Arm Sling, Collar & Cuff Sling), Roller Bandages: Simple Spiral, Reverse Spiral, Figure of Eight, Spica.** **Repeat practical Class** **THEORY** **SEC2: GYMNASTICS** **Unit:** **Dive and Forward Roll** **Hand Spring** **Head Spring** **Neck Spring** **Hand Stand and Forward Roll** **Summersaul**	**2** **3** **3**	**THEORY** **DSE2: Stress and Anxiety** **Unit -IV: Stress and Anxiety** **PRACTICAL** **DSE2: LAB PRACTICAL** **Measurement of Reaction Time, Depth Perception and Mirror Drawing** **Repeat practical Class** **SEC4: VOLLEYBALL** **Fundamental skills** **PRACTICAL** **GE2: Fitness Test** **Unit-IV: Queens College Step Test,** **Harvard Step Test**	**4** **2** **2** **2**

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF PROF SAURAV CHAKRABARTI

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

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Indian Classical Literature Introduction to Bharata'sNatyasashtra Unit 2: Mricchakatika (Introduction and text)	4 4	CC5: American Literature Unit 3: Poetry Introduction i) Prologue	4+ 5	CC11: Womens' Writing Unit4: Wide Sargasso Sea	12
Aug			CC5: American Literature Unit 3: Poetry ii) Crow Testament iii) Passage to India	5+5	CC11: WomensWriting Unit 4: Wide Sargasso Sea CC12: Early 20th C. British Literature Unit4: Portrait of the Artist as a Young Man	6 6
Sept	CC1: Mricchakatika (continued)	8	CC6: Popular Literature Unit 4: Tintin in Tibet (Introduction and text)	10	CC12: Early 20th C. British Literature Unit4: Portrait of the Artist as a Young Man	12

Oct	CC1: Mricchakatika (completed)	8	CC6: Popular Literature Unit 4: Tintinin Tibet (continued)	10	DSE-1A: Indian Writing in English Translation Unit 4: Hind Swaraj (Swaraj and Passive Resistance)	6+6
Nov	CC2: Classical European Literature Unit4: Pot of Gold Introduction and text	4+ 4	CC6: Popular Literature Unit 4: Tintin in Tibet (completed) SEC1: Creative Writing Unit 2	5 5	DSE-1A: Indian Writing in English Translation Unit 4: Hind Swaraj (Education)	8
Dec	CC2: Pot of Gold (continued) CC2: Pot of Gold (completed)	8 8	Revision	5	Revision	6
	Sem-II (H)		**Sem-IV (H)**		**Sem-VI (H)**	
Jan	CC3: Indian Writing in English Unit 3: Poetry (Introduction) i)The Night of the Scorpion	2+ 4	CC8: 18thC British Literature CC8: Unit 4 Gulliver's Travels (Introduction and Text)	4+6 2 2	CC13: Modern European Drama Unit1: A Dolls' House	16

Feb						
Mar	CC3: Unit 3 (Poetry) ii) Freedom to the Slave	6	CC8: 18th C British Literature Unit 4: Gulliver's Travels (continued and completed)	10	CC13: Modern European Drama Unit 1: A Dolls' House (completed) Unit 2: Waiting for Godot	8 8
Apr	CC3: Unit 3 (Poetry) iii) Introduction (Kamala Das)	6	CC9: British Romantic Literature i) Ozymandias ii) Ode to the West Wind	5+5	CC13: Modern European Drama Unit 2: Waiting for Godot (completed)	16
	CC3:Unit 3		CC9: British Romantic Literature		CC13: Modern European Drama	16

	(Poetry) iv) A Poem for Mother	6	iii) Childe Harold's Pilgrimage	10	Unit3: Rhinoceros	
May	Revision	4	CC9: British Romantic Literature iv) Childe Harold's Pilgrimage (completed)	6	CC13: Modern European Drama Unit 4: The Good Woman of Schezwan	16
			CC10: 19th C British Literature Unit4: Goblin Market	4		
June			SEC 2: Film Studies Unit 2: Cinematic Techniques and Devices	5	Revision	10
			Revision	5		

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DEPARTMENT OF ENGLISH

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

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**CC1: Indian Classical Literature** Unit 3: *Kadambari*	8	**CC5: American Literature** Unit 2: 'The Purloined Letter' **CC7: British Poetry and Drama** Unit 1: *Paradise Lost*	10 9	**CC11: Women's Writing** Unit 3 (a): 'A Vindication' Unit 3 (b): 'A Testimony' **DSE2: Partition Literature** Unit 3 (a): 'Alam's Own House'	9 5 5
Aug	**CC1: Indian Classical Literature** Unit 3: *Kadambari*	8	**CC5: American Literature** Unit 2: 'The Crack-up' **CC7: British Poetry and Drama** Unit 1: *Paradise Lost*	10 9	**CC11: Women's Writing** Unit 3 (a): 'A Vindication' Unit 3 (b): 'A Testimony' **DSE2: Partition Literature** Unit 3 (b): 'Final Solution'	8 5 6
Sept	**CC1: Indian Classical Literature** Unit 3: *Kadambari*	6	**CC5: American Literature** Unit 2: 'Dry September' **CC7: British Poetry and Drama** Unit 1: *Paradise Lost*	5 8	**CC11: Women's Writing** Unit 3 (c): 'Amar Jiban' **DSE1: Modern Indian Writing** Unit 3: *Gora* **DSE2: Partition Literature** Unit 3 (c): 'Toba Tek Sing'	6 11 6
Oct	**CC2: European Classical Literature** Unit 1: *The Iliad*	8	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland*	10	**CC11: Women's Writing** Unit 3 (c): 'Amar Jiban' **DSE1: Modern Indian Writing** Unit 3: *Gora* **DSE2: Partition Literature** Unit 3 (d): 'Leaf in the Storm'	6 10 6
Nov	**CC2: European Classical Literature** Unit 1: *The Iliad*	8	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland*	10	CC12: British Literature Unit 3 (a): 'Leda and the Swan' & 'The Second Coming' Unit 3 (b): 'Prufrock' & 'The Hollow Men'	6 9
Dec	**CC2: European Classical Literature** Unit 1: *The Iliad*	8	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland* **SEC1: Creative Writing** Unit 3: 'Modes of Creative Writing'	4 5	CC12: British Literature Unit 3 (a): 'Leda and the Swan' & 'The Second Coming' Unit 3 (b): 'Prufrock' & 'The Hollow Men'	5 9

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**CC3: Indian Writing in English** Unit 4: *Bravely Fought the Queen*	9	**CC8: British Literature** Unit 2 (a): 'Elegy Written in a Country Churchyard' Unit 2 (b): 'Ode to Evening'	6 5	**DSE3: Literary Theory** Unit 1: 'Marxism'	10 10
Feb	**CC3: Indian Writing in English** Unit 4: *Bravely Fought the Queen*	9	**CC8: British Literature** Unit 2 (a): 'Elegy Written in a Country Churchyard' **CC10: British Literature** Unit 1: *Hard Times*	6 10	**DSE3: Literary Theory** Unit 1: 'Marxism' **DSE3: Literary Theory** Unit 4: 'Postcolonial Studies'	9 9
Mar	**CC3: Indian Writing in English** Unit 4: *Bravely Fought the Queen*	8	**CC9: British Romantic Literature** Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'	6	**DSE3: Literary Theory** Unit 2: 'Poststructuralism' **DSE3: Literary Theory** Unit 4: 'Postcolonial Studies'	9 8
Apr	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	8	**CC9: British Romantic Literature** Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger' **SEC2: Film Studies** Unit 1: 'Evolution of the Cinema'	5 5	**DSE3: Literary Theory** Unit 2: 'Poststructuralism' **DSE3: Literary Theory** Unit 4: 'Postcolonial Studies'	8 8
May	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	8	**CC10: British Literature** Unit 1: *Hard Times*	10	**DSE3: Literary Theory** Unit 2: 'Poststructuralism'	8
June	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	7	**CC10: British Literature** Unit 1: *Hard Times*	10	**DSE3: Literary Theory** Unit 3: 'Feminism'	11

Ms. Tanya Arora 04/07/2020

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF MD TAUSIF AHAMED

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

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	4	**CC3: American Literature** Unit 1: *The Adventures of Tom Sawyer*	8	**CC12: British Literature** Unit 2: *Look Back in Anger*	8
			CC7: British Poetry and Drama Unit 1: *Paradise Lost*	9	**DSE2: Partition Literature** Unit 4: *Ice Candy Man*	6
Aug	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	4	**CC5: American Literature** Unit 1: *The Adventures of Tom Sawyer*	8	**CC12: British Literature** Unit 2: *Look Back in Anger*	8
			CC7: British Poetry and Drama Unit 1: *Paradise Lost*	9	Unit 4: *Ice Candy Man*	6
Sept	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	4	**CC5: American Literature** Unit 1: *The Adventures of Tom Sawyer*	8	**CC12: British Literature** Unit 2: *Look Back in Anger*	8
			CC7: British Poetry and Drama Unit 1: *Paradise Lost*	8	**DSE1: Modern Indian Writing** Unit 3: *Gora* Unit 4: *Ice Candy Man*	11 6
Oct	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	4	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland*	10	**DSE1: Modern Indian Writing** Unit 3: *Gora* Unit 4: *Ice Candy Man*	6 5
Nov	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	4	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland*	10	CC12: British Literature Unit 3 (a): 'Leda and the Swan' & 'The Second Coming' Unit 3 (b): 'Prufrock' & 'The Hollow Men'	6 9
Dec	**CC1: Indian Classical Literature** Unit 3: *Abhijnana Shakuntalam*	2	**CC6: Popular Literature** Unit 1: *Alice's Adventures in Wonderland* **SEC1: Creative Writing** Unit 3: 'Modes of Creative Writing'	4 5	CC12: British Literature Unit 3 (a): 'Leda and the Swan' & 'The Second Coming' Unit 3 (b): 'Prufrock' & 'The Hollow Men'	5 9

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	4	**CC8: British Literature** Unit 2 (a): 'Elegy Written in a Country Churchyard' Unit 2 (b): 'Ode to Evening'	6 5	**CC14: Postcolonial Literatures** Unit 1: *Things Fall Apart*	8
Feb	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	4	**CC8: British Literature** Unit 2 (a): 'Elegy Written in a Country Churchyard' **CC10: British Literature** Unit 4: *Return of the Native*	6 10 5	**DSE3: Literary Theory** Unit 1: 'Marxism' **CC14: Postcolonial Literatures** Unit 1: *Things Fall Apart*	10 8
Mar	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	4	**CC9: British Romantic Literature** Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger'	6	**DSE3: Literary Theory** Unit 1: 'Marxism'	9
Apr	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	4	**CC9: British Romantic Literature** Unit 2: 'The Lamb', 'Chimney Sweeper' (both), 'The Tyger' **SEC2: Film Studies** Unit 1: 'Evolution of the Cinema'	5 5	**DSE3: Literary Theory** Unit 2: 'Poststructuralism'	9
May	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	4	**CC10: British Literature** Unit 4: *Return of the Native*	7	**DSE3: Literary Theory** Unit 2: 'Poststructuralism'	8
June	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 2: *Macbeth*	3	**CC10: British Literature** Unit 4: *Return of the Native*	5	**DSE3: Literary Theory** Unit 2: 'Poststructuralism'	8

Ms. Tanuja [illegible] 02/07/2021

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF WRITTWICK MUKHOPADHYAY

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

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture		
Jul	**Theory:** **CC (L1-1): Language, Variety and Stylistics** Unit 1: Language & Communication – Distinctness of human language	16	**Theory :** **CC (L1-2): Language, Imagination & Creativity** Unit 1: Plain Language and Figurative Language (Related Tropes like Metaphor, Conceit, Metonymy)	14		
Aug	**Theory:** **CC (L1-1): Language, Variety and Stylistics** Unit 1: Language & Communication – Distinctness of human language Unit 2: Language varieties – Standard & Non-standard Language, Formal & Informal	6 8	**Theory :** **CC (L1-2): Language, Imagination & Creativity** Unit 1: Plain Language and Figurative Language (Related Tropes like Metaphor, Conceit, Metonymy) Unit 2: Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement	10 6		
Sept	**Theory:** **CC (L1-1): Language, Variety and Stylistics** Unit 2: Language varieties – Standard & Non-standard Language, Formal & Informal	14	**Theory :** **CC (L1-2): Language, Imagination & Creativity** Unit 2: Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement	16		
Oct	**Theory:** **CC (L1-1): Language, Variety and Stylistics** Unit 3: Difference between Declarative and Expressive forms of Language – when Statement becomes Expression	14	**Theory :** **CC (L1-2): Language, Imagination & Creativity** Unit 3: Escape from Banality – Foregrounding devices like Parallelism & Deviation	14		
Nov	**Theory:** **CC (L1-1): Language, Variety and Stylistics** Unit 3: Difference between Declarative and Expressive forms of Language – when Statement becomes Expression Unit 4: Register, Collocation and Style	6 12	**Theory :** **CC (L1-2): Language, Imagination & Creativity** Unit 3: Escape from Banality – Foregrounding devices like Parallelism & Deviation Unit 4: Avoiding/Cultivating Ambiguity – Ambiguity: Weakness or Strength	4 10		
Dec	**Theory:** **CC (L1-1): Language,**		**Theory :** **CC (L1-2): Language, Imagination**			

	Variety and Stylistics Unit 4: Register, Collocation and Style	6	**& Creativity** Unit 4: Avoiding/Cultivating Ambiguity – Ambiguity: Weakness or Strength	8		
	Sem-II (G)					
Jan	**Theory:** **AECC-2: Communicative English** Unit 1: Theories of Communication; Types and Modes of Communication; Language of Communication: Verbal and Non-verbal (spoken and Written); Personal, Social and Business; Barriers and Strategies; Intra-personal, Inter-personal and Group Communication.	18				
Feb	**Theory:** **AECC-2: Communicative English** Unit 1: Theories of Communication; Types and Modes of Communication; Language of Communication: Verbal and Non-verbal (spoken and Written); Personal, Social and Business; Barriers and Strategies; Intra-personal, Inter-personal and Group Communication. Unit 2: Speaking Skills: Monologue, Dialogue, Group Discussion; Effective Communication/Mis-communication; Interview; Public Speech	14 10				

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

	Writing, Making Notes, Letter Writing					

Md. Tauly Alam 04/07/2020

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF PROF DEBARATI CHANDRA

English (Honours) (2021-22) (1.7.21– 30.6 2022)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Indian Classical Literature Introduction Unit 2: *Kadambari*(Introduction and text)	4 4	CC6:Popular Literature Unit 1: Introduction to Detective fiction, Agatha Christie Text of The Murder of Roger Ackroyd	4+ 5	CC11: Women's' Writing Sylvia Plath : Daddy Emily Dickinson I Can not Live With You I'm Wife, I've Finished That	6 7
Aug	Kadambari Text and Annotations	10	Text of The Murder of Roger Ackroyd continued	5+5	CC11: WomensWriting Eunice De Souza Advice to Women Bequest DSE 1 Rabindranath Tagore Gora Introduction	6 6
Sept	CC1: Kadambari(continued)	8	Text of The Murder of Roger Ackroyd continued	10	Gora Text and Annotation	12
Oct	CC1: Kadambari (completed)	8	Discussion on Various topics and issues on The Murder of Roger	10	Gora Analysed, and discussed	12

			Ackroyd		Completed.	
Nov	CC2: Classical European Literature Unit4: Iliad Introduction and text	4+ 4	British Drama Renaissance Period Thomas Dekker Shoemaker's Holiday	5 5	DSE-2A: Partition Literature Alam's Own House The Final Solution Toba Tek Singh	 6 5 5
Dec	CC2 Iliad (continued) CC2: Iliad (completed)	8 8	Thomas Dekker Shoemaker's Holiday	 5	A Leaf in The Storm	6
Jan	**Sem-II (H)** CC3: Indian Writing in English Unit 3: Indian English Drama(Introduction) i)Bravely Fought the Queen	 2+ 4	**Sem-IV (H)** CC8: 18thC British Literature Restoration Theatre Comedy of Manners The Way of the World William Congreve	 4+6 3+3	**Sem-VI (H)** DSE 4 Literary Criticism Philip Sidney John Dryden Alexander Pope	 10 10 5

May	CC4:Unit1 (Poetry) John Donne Shakespeare Revision	6 4	CC10: Hard Times – Introduction Hard Times text Text and Annotations	2 6 4	Literary Theories Topics Discussed	15
June			SEC 2: Film Studies Unit 3: Adaptation and Appropriation Revision	5 5	Revision	5

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF NABANITA ROY
ENGLISH (Honours) (2020-21) (July 2020 – June 2021)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**CC1: Indian Classical Literature** Unit 4: *Abhijnana Shakuntalam*	8	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	9 9	**CC11: Women's Writing** Unit 4 (a): 'The Yellow Wallpaper' **DSE1: Modern Indian Writing** Unit 1 (c) : 'Mahesh'	6 6
Aug	**CC1: Indian Classical Literature** Unit 4: *Abhijnana Shakuntalam*	8	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	9 9	**CC11: Women's Writing** Unit 4 (b): 'A Bliss' **DSE1: Modern Indian Writing** Unit 1 (b): 'Streer Patra'	6 6
Sept	**CC1: Indian Classical Literature** Unit 4: *Abhijnana Shakuntalam*	6	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	8 8	**CC11: Women's Writing** Unit 4 (c): 'Draupadi'	6
Oct	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	6	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz*	8	**CC11: Women's Writing** Unit 3 (c): 'Amar Jiban' **DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6 6
Nov	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	6	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz*	8	**DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6
Dec	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	6	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz* **SEC1: Creative Writing** Unit 3: 'What is Creative Writing'	8 3	**DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC9: British Romantic Literature** Unit 4 (c) : 'Ode to a Nightingale' & 'To Autumn'	6	**CC14: Postcolonial Literatures** Unit 1: *Things Fall Apart* Unit 3: *Haroun and the Sea of Stories*	8 10
Feb	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC9: British Romantic Literature** Unit 4 (c) : 'Ode to a Nightingale' & 'To Autumn'	6	**CC14: Postcolonial Literatures** Unit 1: *Things Fall Apart* Unit 3: *Haroun and the Sea of Stories*	8 10
Mar	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC10: British Literature** Unit 2 (a): 'The Lady of Shallot'	5	**CC14: Postcolonial Literatures** Unit 2 (a): 'Tonight I can Write' Unit 3: *Haroun and the Sea of Stories*	5 8
Apr	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 4: *Twelfth Night*	8	**CC10: British Literature** Unit 2 (b): 'My Last Duchess'	4	**CC14: Postcolonial Literatures** Unit 2 (b): 'A Far Cry from Africa' Unit 4: *The Arrow of Chotti Munda*	5 9
May	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 4: *Twelfth Night*	8	**SEC2: Film Studies** Unit 1: 'Response and Review'	4	**CC14: Postcolonial Literatures** Unit 2 (c): 'Revolving Days' Unit 4: *The Arrow of Chotti Munda*	5 9
June	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 1: 'Rhetoric' Unit 4: *Twelfth Night*	8 7	**SEC2: Film Studies** Unit 1: 'Response and Review'	4	**CC14: Postcolonial Literatures** Unit 2 (d): 'Small Tons and the River' Unit 4: *The Arrow of Chotti Munda*	5 8

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DEPARTMENT OF ENGLISH

TEACHING PLAN OF NABANITA ROY

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

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	9 9	**CC11: Women's Writing** Unit 4 (a): 'The Yellow Wallpaper'	6 6
Aug	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	9 9	**CC11: Women's Writing** Unit 4 (b): 'A Bliss'	6 6
Sept	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC5: American Literature** Unit 4: *The Glass Menagerie* **CC7: British Poetry and Drama** Unit 3: *The Rape of the Lock*	8 8	**CC11: Women's Writing** Unit 4 (c): 'Draupadi'	6
Oct	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz*	8	**CC11: Women's Writing** Unit 3 (c): 'Amar Jiban' **DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6 6
Nov	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz*	8	**DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6
Dec	**CC2: European Classical Literature** Unit 3: *Metamorphoses*	3	**CC6: Popular Literature** Unit 3: *The Wonderful Wizard of Oz* **SEC1: Creative Writing** Unit 3: 'What is Creative Writing'	8 3	**DSE2: Partition Literature** Unit 2: *Train to Pakistan*	6

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC9: British Romantic Literature** Unit 4 (c) : 'Ode to a Nightingale' & 'To Autumn'	6	**CC14: Postcolonial Literatures** Unit 3: *Haroun and the Sea of Stories*	10
Feb	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC9: British Romantic Literature** Unit 4 (c) : 'Ode to a Nightingale' & 'To Autumn'	6	**CC14: Postcolonial Literatures** Unit 3: *Haroun and the Sea of Stories*	10
Mar	**CC3: Indian Writing in English** Unit 2: *Clear Light of Day*	8	**CC10: British Literature** Unit 2 (a): 'The Lady of Shallot'	5	**CC14: Postcolonial Literatures** Unit 2 (a): 'Tonight I can Write' Unit 3: *Haroun and the Sea of Stories*	5 8
Apr	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 4: *Twelfth Night*	8	**CC10: British Literature** Unit 2 (b): 'My Last Duchess'	4	**CC14: Postcolonial Literatures** Unit 2 (b): 'A Far Cry from Africa' Unit 4: *The Arrow of Chotti Munda*	5 9
May	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 4: *Twelfth Night*	8	**SEC2: Film Studies** Unit 1: 'Response and Review'	4	**CC14: Postcolonial Literatures** Unit 2 (c): 'Revolving Days' Unit 4: *The Arrow of Chotti Munda*	5 9
June	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 1: 'Rhetoric' Unit 4: *Twelfth Night*	8 7	**SEC2: Film Studies** Unit 1: 'Response and Review'	4	**CC14: Postcolonial Literatures** Unit 2 (d): 'Small Tons and the River' Unit 4: *The Arrow of Chotti Munda*	5 8

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SURI VIDYASAGAR COLLEGE
DEPARTMENT OF ENGLISH

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

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	**CC1: Indian Classical Literature** Unit 1: Vyasa: 'The Book of the Assembly Hall', in ***The Mahabharata***	**Lecture 7 + Tutorial 1 =8**	**CC5: American Literature** Unit 1: Mark Twain's *The Adventures of Tom Sawyer*	**Lecture 9 + Tutorial 1 =10**	**DSE2: Partition Literature** Unit 1Amitav Ghosh's *The Shadow Lines*	**Lecture 14 + Tutorial 2 =16**
Aug	**CC1: Indian Classical Literature** Unit 3: Vyasa: 'The Book of the Assembly Hall', in ***The Mahabharata***	**Lecture 7 + Tutorial 1 =8**	**CC5: American Literature** Unit 1: Mark Twain's *The Adventures of Tom Sawyer* **CC6: Popular Literature** Agatha Christie:***The Murder of Roger Ackroyd***	**Lecture 8 + Tutorial 2 =10** **Lecture 4 + Tutorial =4**	**DSE2: Partition Literature** Unit 1Amitav Ghosh's *The Shadow Lines* **DSE1: Modern Indian Writing** Rabindranath Tagore: ***Gitanjali*** • 'Where the mind is without fear'	**Lecture 8 + Tutorial 2 =10** **Lecture 4 + Tutorial 2 =6**
Sept	**CC1: Indian Classical Literature** Unit 3: Vyasa: 'The Book of the Assembly Hall', in ***The Mahabharata***	**Lecture 6 + Tutorial 2 =8**	**CC6: Popular Literature** Agatha Christie:***The Murder of Roger Ackroyd***	**Lecture 10 + Tutorial 2 =12**	**DSE1: Modern Indian Writing** Rabindranath Tagore: ***Gitanjali*** • 'Leave thy chanting and singing and telling beads' • "Art thou abroad on this stormy night' • 'Obstinate are the trammels, but my heart aches when I try to break them'	**Lecture 15 + Tutorial 3 =18**
Oct	**CC2: European Classical Literature** Unit 2: *Sophocles' Oedipus the King*	**Lecture 7 + Tutorial 1 =8**	**CC6: Popular Literature** Agatha Christie:***The Murder of Roger Ackroyd***	**Lecture 4 + Tutorial 2 = 6**	**CC11: Women's Writing** Unit 1a) Emily Dickinson: 'I cannot live with you', 'I'm wife; I've finished that' **CC12: British Literature (Early 20th Century)** Unit 1: Virginia Woolf: ***Mrs. Dalloway***	**Lecture 5 + Tutorial 1 =6** **Lecture 2 + Tutorial 0 =2**
Nov	**CC2: European Classical Literature** Unit 2: *Sophocles' Oedipus the King*	**Lecture 7 + Tutorial 1 =8**	**CC: 7: British Poetry and Drama** Aphra Behn's *Oronokoo*	**Lecture 12 + Tutorial 2 =14**	**CC12: British Literature** (Early 20th Century) Unit 1: Virginia Woolf: ***Mrs. Dalloway***	**Lecture 10 + Tutorial 2 =10**
Dec	**CC2: European Classical Literature** Unit 2: *Sophocles' Oedipus the King*	**Lecture 6 + Tutorial 2 =8**	**SEC1: Creative Writing** Unit 1: 'What is Creative Writing?'	**Lecture 3 + Tutorial 1 =4**	**CC12: British Literature** (Early 20th Century) Unit 1: Virginia Woolf: ***Mrs. Dallowa***	**Lecture 4 + Tutorial 2 =6**
Jan	**Sem-II (H)**		**Sem-IV (H)**		**Sem-VI (H)**	

	CC3: Indian Writing in English Unit 1: Lal Behari Dey's Govinda Samanta Or The History of Bengal Rayat	**Lecture 7 + Tutorial 1 =8**	**CC8: British Literature** Defoe's *Moll Flanders*	**Lecture 14 + Tutorial 3 =17**	**DSE4: Criticism and History of English Language and Criticism** 1. History of the English Language. a) Evolution of the English language(Semantic Change, Standardization, Outgrowing Gender Bias)	**Lecture 6 + Tutorial 1 =7**
Feb	**CC3: Indian Writing in English** Unit 1: Lal Behari Dey's Govinda Samanta Or The History of Bengal Rayat	**Lecture 7 + Tutorial 1 =8**	**CC9: British Romantic Literature** Austen's *Pride and Prejudice*	**Lecture 14 + Tutorial 1 =15**	**DSE4: Criticism and History of English Language and Criticism** a) Evolution of the English language(Semantic Change, Standardization, Outgrowing Gender Bias) b) Event, Translation, Individual contribution and the English language (Christianization, Bible, Shakespeare)	**Lecture 2 + Tutorial 1 =3** **Lecture 3 + Tutorial =3**
Mar	**CC3: Indian Writing in English** Unit 1: Lal Behari Dey's Govinda Samanta Or The History of Bengal Rayat	**Lecture 6 + Tutorial 2 =8**	**CC9: British Romantic Literature** Austen's *Pride and Prejudice 18+3* **CC10: British Literature (19th Century)** Unit 1: *Jane Eyre*	**Lecture 4 + Tutorial 2 =6** **Lecture 8 + Tutorial 1 =9**	**DSE4: Criticism and History of English Language and Criticism** b) Event, Translation, Individual contribution and the English language (Christianization, Bible, Shakespeare) c) Enrichment of the English language (Latin, French& Scandinavian Influences and the Influence of Science and Technology)	**Lecture 5 + Tutorial 2 =7** **Lecture 3 + Tutorial =3**
Apr	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 1: *Rhytoric and Prosody*	**Lecture 4 + Tutorial 1 =5**	**CC10: British Literature (19th Century)** Unit 1: *Jane Eyre*	**Lecture 12 + Tutorial 2 =14**	**DSE4: Criticism and History of English Language and Criticism** c) Enrichment of the English language (Latin, French& Scandinavian Influences and the Influence of Science and Technology) d) Expansion of Vocabulary &Branching Off (Word Formation, Indian English & American English)	**Lecture 5 + Tutorial 2 =7** **Lecture 3 + Tutorial =3**
May	**CC4: British Poetry, Drama & Rhetoric and Prosody** Unit 1: *Rhetoric and Prosody*	**Lecture 8 + Tutorial 2 =10**	**CC10: British Literature (19th Century)** Unit 1: *Jane Eyre*	**Lecture 5 + Tutorial 2 =7**	**DSE4: Criticism and History of English Language and Criticism** d) Expansion of Vocabulary &Branching Off (Word Formation, Indian English & American English)	**Lecture 5 + Tutorial 2 =7**

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

Ms. [signature] 04/07/2020

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SURI VIDYASAGAR COLLEGE
DEPARTMENT OF ENGLISH

TEACHING PLAN OF DR> SUSANTA KUMAR BARDHAN

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

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

DEPARTMENT OF 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) (Jan 2022 – June 2022)

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	11	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	15	Practical: DSE 4: Community Outreach Programme Step I: Ethnographic studies Participatory development Sustainable development Community outreach programme Problem identification Literature review Remedial session	10

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	10	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	16	Practical: DSE 4: Community Outreach Programme Step III: Data collection: Survey Focus group discussion Personal interview Remedial session	9
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	12	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	15	Practical: DSE 4: Community Outreach Programme Step V: Objective wise data interpretation Findings Conclusion Further Suggestion Remedial session	9

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 2021 – Dec 2021)

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	10	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	12	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	15	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	12

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	12	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	13	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	10	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	7	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	13	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 MASS COMMUNICATION & JOURNALISM

TEACHING PLAN – SANCHITA CHATTERJEE 2021-22

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	8	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	9	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	10
SEPTEMBER	CC-1 UNIT 1	12	CC-7 UNIT -1	14	CC-12 UNIT -3	14

	ETHICS OF JOURNALISM, **HARD NEWS VS. SOFT NEWS,** **ATTRIBUTION, EMBARGO, VERIFICATION**		**TYPES OF AD. & NEW TRENDS,** **ECONOMIC , CULTURAL, PSYCHOLOGICAL AND SOCIAL ASPECT OF AD.** **ETHICAL & REGULATORY ASPECTS OF AD – AAAI, ASCI**		**CLASSIFICATION OF CINEMA, FILM GENRE, FICTION & NON- FICTION FILM, FILM & SOCIETY, FILM AS AN ART, FILM AS A MEDIUM OF MASS COMMUNICATION, FILM CENSORSHIP**	
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** **PRACTICAL – MAKING OF A SHORT FILM**	**8** **8**

DECEMBER	**CC-2** **UNIT -1** **Review overall via oral presentation**	**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 – COLLECTING NEWS FRIM BEATS**	**9** **4**	**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	8	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 SEC-3	8	DSE -3 FINDINGS AND DATA ANALYSIS	14

MAY	CC-4 UNIT -1 MISSIONARY OF BAPTISTS, WILLIAM CAREY	6	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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DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN OF SUMAN RUDRA

(2021-2022)

MONTH	SEM –I (H)	NO. OF LECTURE	SEM-III(H)	NO. OF LECTURE	SEM-V (H)	NO. OF LECTURE
JULY	CC-1 Role of Media in a Democracy, Responsibility to Society. Press and Democracy. UNIT- 5	5	SEC-1 Broadcast Formats Public service advertisements. Radio Jingles, Radio magazine, Radio Interview, Talk Show ,Discussion, Feature Documentary. UNIT-1	8	DSE 2 concept of corporate & organization, corporate governance, corporate and management, issues of corporate communication. UNIT-1	7
AUGUST	CC-1 Contemporary debates and issues relating to media. Contemporary issues of media. Rights to privacy, Fake news & Paid news. UNIT-5	4	sec-1 Broadcast Production Techniques, Working of a Production Control Room. studio Types and functions, acoustics, input and output chain, studio console: recording and mixing. Personnel in Production process Role and Responsibilities . UNIT-2	14	DSE 2 identify the stakeholder. Grunigs theory, public and stakeholder, stake holder's relationship, communication tools and strategies for stakeholder relations. UNIT-2	12
SEPTEMBER	CC-2 -Media and Everyday Life. Discussions around	3	sec-1 studio Types and functions, acoustics, input and output chain,	8	DSE 2 Corporate crisis, crisis plan management	9

	mediated and non-mediated communication. UNIT- 1		studio console: recording and mixing. Personnel in Production process Role and Responsibilities. UNIT-2		and crisis communicatio n. UNIT-3	
OCTOBER	CC-2 MEDIA impact of (Educate ,inform and entertain) of print, Radio ,and digital media). UNIT-1	3	sec-1 Stages of Radio Production Pre-Production – (Idea, research, RADIO script) UNIT-3 Production–Creative use of Sound; Listening, Recording, using archived sounds, (execution, requisite, challenges), Sound Editing, Creative use of Sound Editing. UNIT-3 **PRACTICAL-** Producing Radio format mentioned in the Unit 1. (Duration-5 minutes).	10	DSE -2 corporate branding and brand promotion. Unit-3 Corporate social responsibility, issue and approaches, UNIT-4	10
NOVEMBER	CC-2 Four Models of Communication. UNIT -5	6	**CC-7** Public Relations – Concepts and practices Introduction to Public Relations Growth and development of PR Importance, Role and Functions of PR Principles and Tools of Public relations Organization of Public relations: In house department vs consultancy. PR in govt. and Private	14	DSE -2 P3 Theory, theory of utility, profit and philanthropic approach – a debate on CSR, CSR budget, social audit. Unit-4	14

			Sectors. Govt's Print, Electronic, Publicity, Film and Related Media Organizations . **Unit-3**			
DECEMBER	CC-2 Ritual or Expressive model. Publicity Model . Reception Model . Culture and effects model- HUB MODEL UNIT-5	4	**CC-7** PR –Publics and campaigns, Research for PR, Managing promotions and functions. PR Campaign-planning, execution, evaluation Role of PR in Crisis management . Ethical issues in PR-Apexbodies inPR-IPRA code-PRSI, PSPFand theircodes. **Unit 4**	11	DSE -2 CSR and media relations, CSR promotion and role of NGOs. UNIT-4	8
	SEM-II (H)	NO. OF LECTURE	SEM-IV (H)	NO. OF LECTURE	SEM-VI (H)	NO. OF LECTURE
JANUARY	CC-3 Understanding media and news. UNIT-5	2	CC-9 Development: Concept, concerns, paradigms Concept of development Measurement of development Development versus growth, Human development ,Development as freedom. Unit -1 Models of development: Nehruvian model . Gandhian mode.	10	CC 13 rural development & rural society, rural vs urban-sociological, demographical and cultural perspectives, rural development and agricultural development. UNIT-1	11

			unit-2			
FEBUARY	CC-3 Sociology of news: factors affecting news treatment, paid news, agenda setting, pressures in the newsroom, trial by media, gate keepers. UNIT-5	6	CC-9 Developing countries versus developed countries UN millennium dev goals Development communication: Concept and approaches Paradigms of develo ment - Dominant paradigm, dependency, alternative paradigm Dev comm. approaches – diffusion of innovation, empathy, magic multiplier Alternative Devcomm. approaches: Sustainable Development ,Participatory Development ,Inclusive Development Gender and development support communication.definition, genesis, area wood striangle. Unit-3	14	CC-13 participatory approaches of rural development, rural communication is an integrated communication strategy , model of rural communication, different kits/ tools of rural communication promotion/ rural communication for health, primary education and campaign of other related issues for rural development. UNIT-2	12

MARCH	CC-3 Objectivity and politics of news Neutrality and bias in news. UNIT-5	5	CC-9 Role of media in development Mass Media as a tool for development Creativity. role and performance of each media-comparative study of pre and post liberalization era. performance record of each medium-print, radio, tv, video, traditional media. UNIT-4	8	CC-13 Gandhian view of rural development, social change and rural development, decentralization of power, people's participation, PRIs, communication strategies, communication gap in PRIs. UNIT-3	12
APRIL	CC-4 development in Indian Press. UNIT-5	2	CC-9 Role of development agencies and NGOs in development communication Critical appraisal of dev comm. programmes and govt. schemes: SITE, Krishi Darshan, Kheda, Jhabua, MNREGA; Unit-5	11	CC-13 decentralize planning to rural development and role of NGO s,non-agrarian activities and integrated rural development. UNIT-4	7
MAY	CC-4 Radio and Television in India. Emergence of Radio in Pre-independence period. All India Radio . UNIT-5	4	cc-9 Cyber media and dev – e- governance, e chaupal, national knowledge network, ICT for dev Narrow casting. Unit-5	8	cc-13 promotion of rural industries and role of rural communication , rural cooperative and self group UNIT-4	8

JUNE	CC-4 Doordarshan,,Magazine journalism, Press in emergency period, Cable TV and Satellite Television. UNIT-5	4	CC-9 Development support communication in India in the areas of: agriculture, health & family welfare, population, women empowerment, poverty, unemployment, energy and environment, literacy, consumer awareness, Right to Information(RTI) UNIT-5	9	CC-13 rural media, low cost participatory media, community media in rural development, role of traditional media in rural development, development support communication, participatory. UNIT-5	10

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Suman Rudra.
19.05.2023.

DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN OF PRATICK KABIRAJ (2021-2022)

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	7	CC-6 HISTORY OF TELEVISION, INVENTION TO TELECAST UNIT-1	8	CC-11 MEDIA AND INTERNATIONAL COMMUNICATION A BRIEF OVERVIEW UNIT-1	10
AUGUST	CC-1 NEWS WORTHINESS, PRINCIPLE OF NEW SELECTION AND STRUCTURE OF NEWS WRITING UNIT-3	8	CC-6 TELEVISION IN INDIA NATIONWIDE NETWORK FORMATION, BCI, COMMUNITY TELEVISION, SIT,PSB UNIT-1	12	CC-11 PROPAGANDA IN THE INTER WAR YEARS, NAZI PROPAGANDA,RADIO AND INTERNATIONAL COMMUNICATION UNIT-1 COLD WAR UNIT-2	12
SEPTEMBER	CC-1 SOURCE OF NEWS ,USE OF ARCHIVES,AND INTERNET UNIT-3	6	CC-6 DIFFERENT TYPES OF TV CHANNELS, DD VS SATELLITE CHANNEL UNIT-2 BASIC CAMERA SHOTS UNIT-3	10	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	7	CC-11 NWICO,UNESCO,NAM,MCBRIDE COMMISSION,NORTH-SOUTH,POOR-RICH UNIT-2	8
NOVEMBER	CC-1 DIFFERENCE BETWEEN DIFFERENT MEDIUM,CITIZEN JOURNILISM UNIT-4 CC-2 HYPODERMIC NEDDLE THEORY,AGENDA SETTING,PROPAGANDA,SPIRAL OF SILENCE UNIT-4	15	CC-6 TELEVISION NEWSROOM,WRITING TECHNIQUES,WRITING TECHNIQUES PRACTICAL,ENG,EFP,NEWS ROOM PERSONAL DUTIES AND RESPONSIBITIES UNIT-4	17	CC-11 RISE OF AL JAZEERA, THE GULF WARS,CNN,EMBEDDED JOURNILISM,9/11 INCIDENT UNIT-3 CULTURER IMPERALISM,MEDIA HEGEMONY UNIT-4	10

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DECEMBER	CC-2 CULTIVATION ANALYSIS,ALTERNATIVE PARADIGM UNIT-4	5	CC-6 TELEVISION PROGRAMME, CHARACTER OF TELEVISION NEWS, NEWS AS EVENT AND CONSTRUCTION UNIT-5	6	CC-11 MEDIA AND THE GLOBAL MARKET,MEDIA CONGLOMERATES LOCAL AND GLOBAL PROGRAMMES UNIT-5	5
	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	15	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	10
FEBUARY	CC-3 PHOTO EDITING,ROLE AND RESPONSIBILITY,EDITING PERSONALITY,EDITORIAL PAGE DESIGN,STUCTURE PURPOSE UNIT-3	6	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	15
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	5	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	15	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	4	CC-8 VISUAL AND CONTENT DESIGN, WEBSITE PLANNING,BLOGGING UNIT-5	6	CC-14 PAID NEWS ,LOBBYING ,PRESSURE GROUP INFLUNCE INDIAN AND INTERNATIONAL MEDIA GIANTS UNIT-5	4

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Suri Vidyasagar College

DEPARTMENT OF MATHEMATICS

TEACHING PLAN OF PROF. SHUBHENDU GHOSH

Mathematics (Honours) (2021-22) (July 2021 – June 2022)

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	

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TEACHING PLAN OF DR. RAMPROSAD SAHA
Mathematics (Honours) (2021-22) (July 2021 – June 2022)

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+2**	**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+2** **3+3** **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+4** **6**
Aug	**Theory:** **CC1: Geometry** Unit 3: Classification of conics using the discriminant, : polar equations of conics	**3+1**	**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+1** **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+1** **7**
Sept	**Theory:** **CC1: Geometry** Unit 3 Spheres, Cylindrical surfaces	**3+3**	**Theory** **CC7: Numerical Methods** Unit 5: Numerical Integration: Newton Cotes formula, Trapezoidal rule, Simpson's 1/3rd rule, Simpsons $3/8^{th}$ 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 (a) Gaussian elimination method **Theory** **SEC1: Logic**	**4+3** **3+3**	.**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 bodies. Stable and unstable equilibrium, Equilibrium of flexible string.	**3+3** **7+2**

			Unit 1: Converse, contra positive and inverse propositions and precedence of logical operators	**3**		
Oct	**Theory:** **CC1: Geometry** Unit 3: Central conicoids, paraboloids	**3+1**	**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** **2+2** **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+1** **5+1**
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+1** **5+3** **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+4** **6+2**
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+2** **4** **2+1**	**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+2** **4+2**

	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	**Theory** **CC4: Differential Equation** Unit 1: Lipschitz condition and Picard's Theorem (Statement only). General solution of homogeneous equation of second order.	**4**	**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.	**3** **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** **2**
Feb	**Theory** **CC4: Differential Equation** Unit 1: .Principle of super position for homogeneous equation, Wronskian: its properties and applications.	**6**	**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.	**5** **6**	**Theory** **DSE4: Mechanics-II** Unit 1: Limitations of Newton's laws in solving problems. **Project Work** **PW01:**	**7+1** **12**
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+2** **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** **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**	**Theory** **CC9: Multivariate Calculus** Unit 4: The Divergence theorem. **Theory** **SEC2: Graph Theory** Unit 3: Dijkstra's algorithm, Warshall algorithm.	**2+2** **7**	**Theory** **DSE4: Mechanics-II** Unit 1 & 3: Revision of Mechanics – II. **Project Work** **PW01:**	**4** **6**

Head of the Department,
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TEACHING PLAN OF DR. PRASENJIT SAHA
Mathematics (Honours) (2021-22) (July 2021 – June 2022)

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**

Head of the Department,
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TEACHING PLAN OF SUJOY DAS
Mathematics (HONOURS) (2021-22) (1st July 2021 – 30th June 2022)

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, intermediate value theorem,	6+4	**Paper-DSE-11, Unit -1T**he simplex algorithm	6+4

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 lerivability 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

Head of the Department,
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TEACHING PLAN OF SOUMI DAS
Mathematics (Honours) (2021-22) (July 2021 – June 2022)

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**

Head of the Department,
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