**ACADEMIC CALENDAR (Full year)**

**(Chemistry General; 3T B.Sc)**

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| 3rd year (AY 2018-2019) | | Period: 16.07.2018 to 15.03.2019 | | | |
| Paper: 3TG (Theory) | | Full Marks: 50 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Chemistry Group -A: Applied Chemistry  Chemical separation process, Amino acids, peptide and proteins, Nucleic acids, Drug, Synthesis of dye and use &Hydrogenation of oil | | 30 | Dr. Sutapa Ray |  |
| 2 | Chemistry Group -A: Applied Chemistry  Manufacturing of some important Industrial Products, Petroleum, Pesticides, Food Additives &Error analysis | | 30 | Dr. Soumya Sundar Mati |  |

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| 3rd year (AY 2018-2019) | | Period: 16.07.2018 to 15.03.2019 | | | |
| Paper: 3TG (Practical) | | Full Marks: 50 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Group -B: Practical Chemistry | | 60 | Dr. Soumya Sundar Mati & Dr. Sutapa Ray |  |

**(ENVS Compulsory)**

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| 3rd year (AY 2018-2019) | | Period: 16.07.2018 to 15.03.2019 | | | |
| Paper: ENVS (Compulsory) (Theory) | | Full Marks: 70(T)+ 30(P) | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Unit 1: The Multidisciplinary nature of environmental studies | | 5 | Dr. Soumya Sundar Mati |  |
| 2 | Unit 2: Natural resources: Renewable and non-renewable resources | | 5 | Dr. Sutapa Ray |  |
| 3 | Unit 3: Ecology and Ecosystems | | 5 | Dr. Sutapa Ray |  |
| 4 | Unit 4: Biodiversity and its conservation | | 5 | Dr. Sutapa Ray |  |
| 5 | Unit 5 :Environmental Degradation and Pollution | | 5 | Dr. Sutapa Ray |  |
| 6 | Unit-6: Social Issues and the Environment | | 15 | Dr. Soumya Sundar Mati |  |
| 7 | Unit-7: Human Population and the Environment | | 10 | Dr. Soumya Sundar Mati |  |
| 8 | Unit-8: Field Work Report I Project Report I Term Paper | | 5 | Dr. Soumya Sundar Mati & Dr. Sutapa Ray |  |

**ACADEMIC CALENDAR (ODD SEMESTER)**

**(Chemistry GE; CBCS)**

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| Semester I (AY 2018-2019) | | Period: 18.07.2018 to 16.11.2018 | | | |
| Paper: GE1T (Theory) | | Full Marks: 40(T)+10(IA)+5(CA) Credit: 04 | | | |
| Sl. No. | TOPICS | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Section B: Organic Chemistry  Fundamentals of Organic Chemistry, StereoChemistry, Nucleophilic substitution and Elimination reactions, Aliphatic Hydrocarbons | | 30 | Dr. Sutapa Ray |  |
| 2 | Section A: Inorganic Chemistry  Atomic Structure, Chemical Periodicity, Acid and Bases, Redox Reactions | | 30 | Dr. Soumya Sundar Mati |  |

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| Semester I (AY 2018-2019) | | Period: 18.07.2018 to 16.11.2018 | | | |
| Paper: GE1P (Practical) | | Full Marks: 20 Credit: 02 | | | |
| Sl. No. | TOPICS | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Atomic Structure, Chemical Periodicity, Acid and Bases, Redox Reactions, General Organic Chemistry and Aliphatic Hydrocarbon | | 60 | Dr. Soumya Sundar Mati & Dr. Sutapa Ray |  |

**ACADEMIC CALENDAR (EVEN SEMESTER)**

**(Chemistry GE; CBCS)**

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| Semester II (AY 2018-2019) | | Period: 31.01.2019 to 31.5.2019 | | | |
| Paper: GE2 (Theory) | | Full Marks: 40(T)+10(IA)+5(CA) Credit: 04 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Section A: Physical Chemistry-I  Kinetic Theory of Gases and Real gases, Liquids, Solids, Chemical Kinetics | | 30 | Dr. Soumya Sundar Mati |  |
| 2 | Section B: Inorganic Chemistry-II  Chemical Bonding and Molecular Structure, Comparative study of p-block elements | | 30 | Dr. Sutapa Ray |  |

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| Semester II (AY 2018-2019) | | Period: 31.01.2019 to 31.5.2019 | | | |
| Paper: GE2P (Practical) | | Full Marks: 20 Credit: 02 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | STATES OF MATTER & CHEMICAL KINETICS, CHEMICAL  BONDING & MOLECULAR STRUCTURE, p-BLOCK ELEMENTS | | 60 | Dr. Soumya Sundar Mati & Dr. Sutapa Ray |  |

**(ENVS AECC; CBCS)**

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| Semester II (AY 2018-2019) | | Period: 31.01.2019 to 31.5.2019 | | | |
| Paper: ENVS ( AECC ) (Theory) | | Full Marks: 50(T)+15(IA)+5(CA)+30(P) Credit:4 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Unit-1: Introduction to environmental studies | | 2 | Dr. Soumya Sundar Mati |  |
| 2 | Unit-2: Ecosystem | | 6 | Dr. Sutapa Ray |  |
| 3 | Unit-3: Natural Resources: Renewable and Non-renewable resources | | 8 | Dr. Sutapa Ray |  |
| 4 | Unit-4: Biodiversity and conservation | | 8 | Dr. Sutapa Ray |  |
| 5 | Unit-5: Environmental Polleution | | 8 | Dr. Soumya Sundar Mati |  |
| 6 | Unit-6:Environmental Policies and Practices | | 7 | Dr. Soumya Sundar Mati |  |
| 7 | Unit-7: Human Communities and the Environment | | 6 | Dr. Soumya Sundar Mati |  |
| 8 | Unit-8: Field work | | 5 | Dr. Soumya Sundar Mati & Dr. Sutapa Ray |  |