**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 ChemistryFundamentals of Organic Chemistry, StereoChemistry, Nucleophilic substitution and Elimination reactions, Aliphatic Hydrocarbons | 30 | Dr. Sutapa Ray |  |
| 2 | Section A: Inorganic ChemistryAtomic 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, CHEMICALBONDING & 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  |  |