**ACADEMIC CALENDAR (ODD SEMESTER)**

**(Chemistry GE; CBCS)**

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| Semester I (AY 2022-2023) | | Period: 19.09.2022 to 4.02.2023 | | | |
| 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  StereoChemistry, Aliphatic Hydrocarbons | | 20 | Dr. Sutapa Ray |  |
| 2 | Section A: Inorganic Chemistry  Atomic Structure, Chemical Periodicity, Redox Reactions | | 20 | Dr. Soumya Sundar Mati |  |
| 3 | Section A: Inorganic Chemistry  Acid and Bases,  Section B: Organic Chemistry  Fundamentals of Organic Chemistry, Nucleophilic substitution and Elimination reactions | | 20 | Hillol Khatua |  |

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| Semester I (AY 2022-2023) | | Period: 19.09.2022 to 4.02.2023 | | | |
| 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 & Hillol Khatua |  |

**(Chemistry General; CBCS)**

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| Semester I (AY 2022-2023) | | Period: 19.09.2022 to 4.02.2023 | | | |
| Paper: DSC1AT(CC1)(Theory) | | Full Marks: 60(T)+10(IA)+5 (CA) Credit:4 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Section A: Inorganic Chemistry  Atomic Structure | | 20 | Dr. Soumya Sundar Mati |  |
| 2 | Section A: Inorganic Chemistry  Chemical Bonding and Molecular structure | | 10 | Hillol Khatua |  |
| 3 | Section B: Organic Chemistry  StereoChemistry, Aliphatic Hydrocarbons | | 20 | Dr. Sutapa Ray |  |
| 4 | Section B: Organic Chemistry  Fundamentals of Organic Chemistry | | 10 | Hillol Khatua |  |

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| Semester I (AY 2022-2023) | | Period: 19.09.2022 to 4.02.2023 | | | |
| Paper: DSC1AP(CC1)(Practical) | | Full Marks: 20 Credit:2 | | | |
| 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 & Hillol Khatua |  |

**ACADEMIC CALENDAR (EVEN SEMESTER)**

**(Chemistry GE; CBCS)**

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| Semester II (AY 2022-2023) | | Period: 20.3.2023 to 28.7.2023 | | | |
| 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  Kinetic Theory of Gases and Real gases, Liquids, Solids | | 20 | Dr. Soumya Sundar Mati |  |
| 2 | Section A: Physical Chemistry  Chemical Kinetics | | 10 | Hillol Khatua |  |
| 3 | Section B: Inorganic Chemistry-II  Chemical Bonding and Molecular Structure (Covalent Bonding to MO), Comparative study of p-block elements | | 20 | Dr. Sutapa Ray |  |
| 4 | Section B: Inorganic Chemistry-II  Chemical Bonding and Molecular Structure (Ionic Bonding) | | 10 | Hillol Khatua |  |

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| Semester II (AY 2022-2023) | | Period: 20.3.2023 to 28.7.2023 | | | |
| 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 & Hillol Khatua |  |

**(ENVS AECC; CBCS)**

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| Semester II (AY 2022-2023) | | Period: 20.3.2023 to 28.7.2023 | | | |
| 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 | Hillol Khatua |  |
| 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 | Hillol Khatua |  |
| 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 | Hillol Khatua |  |
| 8 | Unit-8: Field work | | 5 | Dr. Soumya Sundar Mati, Dr. Sutapa Ray & Hillol Khatua |  |

**ACADEMIC CALENDAR (EVEN SEMESTER)**

**(Chemistry General; CBCS)**

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| Semester II (AY 2022-2023) | | Period: 20.3.2023 to 28.7.2023 | | | |
| Paper: DSC1BT(CC2)(Theory) | | Full Marks: 60(T)+10(IA)+5 (CA) Credit:4 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Section A: Physical Chemistry  Chemical Energetic, Chemical Equilibrium | | 20 | Dr. Soumya Sundar Mati |  |
| 2 | Section A: Physical Chemistry  Ionic Equilibria | | 10 | Hillol Khatua |  |
| 3 | Section B: Organic Chemistry  Aromatic Hydrocarbon to Phenols | | 20 | Dr. Sutapa Ray |  |
| 4 | Section B: Organic Chemistry  Ethers to Aldehydes &Ketones | | 10 | Hillol Khatua |  |

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| Semester II (AY 2022-2023) | | Period: 20.3.2023 to 28.7.2023 | | | |
| Paper: DSC1BP(CC2)(Practical) | | Full Marks: 20 Credit:2 | | | |
| Sl. No. | **TOPICS** | | CLASSES ALLOTED | Class taken by | Remark |
| 1 | Chemical Energetics, Equilibria & Functional Organic Chemistry | | 60 | Dr. Soumya Sundar Mati, Dr. Sutapa Ray & Hillol Khatua |  |