**Distribution of the Syllabus**

**SEM-II, 2020**

**Mugberia Gangadhar Mahavidyalaya**

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| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C3T-Inorganic Chemistry I  C3P-Inorganic Chemistry lab | 1. Structure of atom 2. Periodic table 3. Acid-Base 4. Redox 5. Acid Base titrations 6. Redox titrations | Dr. N. Sutradhar  M. Maity  M. Maity  Dr. N. Sutradhar  Dr. N. Sutradhar | 18  8  16  18  60 | 04  02 |
| C4T- Organic Chemistry II  C4P- Organic chemistry LAB | 1. Stereochemistry II 2. General treatment of reaction mechanism II 3. Substitution & Elimination reaction   Organic Preparations | Prof. Goutam Kr. Jana  Dr. B. C. Samanta  Dr. B. C. Samanta  Dr. B. C. Samanta | 30  10  20  60 | 04  02 |
| GE2T Section A Physical Chemistry I  GE2P- LAB Section A | 1. Kinetic theory of gases and real gases 2. Liquids 3. Solids 4. Chemical kinetics   Physical Chemistry LAB | Prof. Ribhu Maity  Prof. Ribhu Maity  Prof. Mrigendu. Midya  Prof. Mrigendu. Midya  Prof. Mrigendu. Midya | 10  6  6  8  30 | 02  01 |
| GE2T Section B Physical Chemistry I  GE2P- LAB Section B | 1. Chemical bonding and molecular structure 2. Study of p-block elements   Inorganic Chemistry LAB  Qualitative analysis of acid and basic radicals | Dr. N. Sutradhar  Dr. M. Maity  Dr. N. Sutradhar  &  Prof. M. Maity | 16  14  30 | 02  01 |

**Distribution of the Syllabus**

**SEM-IV, 2020**

**Mugberia Gangadhar Mahavidyalaya**

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| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C8T-Physical Chemistry I  C8P-Physical Chemistry lab I | 1. Application of thermodynamics-II 2. Ionic equilibria 3. Electromotive force 4. Dipole moment and polarizibility 5. Quantum Chemistry   LAB Practical | Prof. Mrigendu. Midya  Prof. Mrigendu. Midya  Prof. Ribhu Maity  Prof. Mrigendu. Midya  Prof. Ribhu Maity  Prof. Ribhu Maity  Prof. Mrigendu. Midya | 15  05  15  05  20  60 | 04  02 |
| C9T- Inorganic Chemistry  C9P- Inorganic chemistry LAB | 1. General Principles of Metallurgy 2. Chemistry of s and p block elements 3. Noble gases 4. Inorganic Polymers 5. Coordination chemistry   Quantitative estimation via Complexometic titration | Dr. N. Sutradhar  Prof. M Maity  Dr. N. Sutradhar  Dr. N. Sutradhar  Dr. N. Sutradhar  Prof. M Maity | 10  25  10  10  05  60 | 04  02 |
| C10T- Organic Chemistry II  C10 P- Organic chemistry LAB | 1. Nitrogen Compounds 2. Rearrangements 3. Logic of organic synthesis 4. Organic Spectroscopy   Estimation of organic compounds | Prof. Goutam Kr. Jana  Prof. Goutam Kr. Jana  Dr. B. C. Samanta  Dr. B. C. Samanta  Dr. B. C. Samanta | 8  12  15  25  60 | 04  02 |
| SEC 2T  SEC 2P | Chemistry of cosmetics and pigments | Dr. B. C. Samanta  Dr. B. C. Samanta  Dr. N. Sutradhar | 20  10 | 01  01 |
| GE4T Section A Physical Chemistry I  GE4P- LAB Section A | 1. Solution 2. Phase equilibrium 3. Conductance 4. Electromotive force   Physical Chemistry LAB | Prof. Mrigendu. Midya  Prof. Mrigendu. Midya Prof. Ribhu Maity  Prof. Ribhu Maity  Prof. Ribhu Maity  Prof. Mrigendu Midya | 7  8  6  9  30 | 02  01 |
| GE4T Section B Theory  GE4P- LAB Section B | 1. Chemical Analysis 2. Environmental analysis   Analytical and environmental chemistry LAB | Dr. B. C. Samanta  Prof. Goutam Kr. Jana  Dr. B. C. Samanta  Dr. N. Sutradhar | 15  15  30 | 02  01 |

**Distribution of the Syllabus**

**SEM-VI, 2020**

**Mugberia Gangadhar Mahavidyalaya**

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| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C13T-Inorganic Chemistry V  C13T-Inorganic Chemistry lab | 1. Bioinorganic Chemistry 2. Organometallic Chemistry 3. Catalysis by Organometallic Compounds 4. Reaction Kinetics and Mechanism   Qualitative analysis of inorganic compounds containing 4 radicals | Dr. Narottam Sutradhar  Prof. Minakshi Maity  Prof. Minakshi Maity  Dr. Narottam Sutradhar  Dr. Narottam Sutradhar | 18  18  10  14  30 | 04  02 |
| C14T-Physical Chemistry V  C14P-Physical Chemistry lab | 1. Molecular Spectroscopy 2. Photochemistry 3. Surface phenomenon   Surface Tension, Lambert Beer’s Law, Reaction Kinetics, pH determination, Spectrophotometric determination of CMC | Prof. Ribhu Maity  Prof. Mrigendu Midya  Prof. Ribhu Maity & Mrigendu Midya  Prof. Ribhu Maity & Mrigendu Midya | 25  15  20  30 | 04  02 |
| DSE-3  DSE 3P LAB | 1. Silicate Industries 2. Fertilizers 3. Batteries 4. Nanomaterials 5. Catalysis 6. Chemical explosives   Determination of Composition of Dolomite, Analysis of (Cu, Ni);(Cu, Zn) in alloy or synthetic sample, Analysis of Cement, Preparation of pigment (ZnO) | Dr. B. C. Samanta  Dr. B. C. Samanta  Dr. N. Sutradhar  Dr. N. Sutradhar  Dr. N. Sutradhar  Dr. B. C. Samanta  Dr. B. C. Samanta & Dr. N. Sutradhar | 10  10  10  10  10  10  30 | 04  02 |
| DSE-4T  Polymer Chemistry  DSE4P- LAB | 1. Introduction and History of Polymeric Materials 2. Functionality and its Importance 3. Kinetics of Polymerization 4. Crystallization and crystallinity 5. Nature and structure of polymers 6. Properties of the Polymer 7. Determination of molecular weight of the polymer 8. Glass Transition temperature 9. Polymer Solution   Polymer Analysis | Prof. Mrigendu Midya  Do  Do  Do  Do  Do  Do  Prof. Ribhu Maity  Do  Do  Dr. B. C. Samanta | 1  7  8  8  8  8  6  6  8  30 | 04  02 |