**Distribution of the Syllabus**

**SEM-II, 2020**

**Mugberia Gangadhar Mahavidyalaya**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C3T-Inorganic Chemistry IC3P-Inorganic Chemistry lab | 1. Structure of atom
2. Periodic table
3. Acid-Base
4. Redox
5. Acid Base titrations
6. Redox titrations
 | Dr. N. SutradharM. MaityM. MaityDr. N. SutradharDr. N. Sutradhar | 188161860 | 0402 |
| C4T- Organic Chemistry IIC4P- Organic chemistry LAB | 1. Stereochemistry II
2. General treatment of reaction mechanism II
3. Substitution & Elimination reaction

Organic Preparations | Prof. Goutam Kr. JanaDr. B. C. SamantaDr. B. C. SamantaDr. B. C. Samanta | 30102060 | 0402 |
| GE2T Section A Physical Chemistry IGE2P- LAB Section A | 1. Kinetic theory of gases and real gases
2. Liquids
3. Solids
4. Chemical kinetics

Physical Chemistry LAB | Prof. Ribhu MaityProf. Ribhu MaityProf. Mrigendu. MidyaProf. Mrigendu. MidyaProf. Mrigendu. Midya | 1066830 | 0201 |
| GE2T Section B Physical Chemistry IGE2P- LAB Section B | 1. Chemical bonding and molecular structure
2. Study of p-block elements

Inorganic Chemistry LABQualitative analysis of acid and basic radicals | Dr. N. SutradharDr. M. MaityDr. N. Sutradhar&Prof. M. Maity | 161430 | 0201 |

**Distribution of the Syllabus**

**SEM-IV, 2020**

**Mugberia Gangadhar Mahavidyalaya**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C8T-Physical Chemistry IC8P-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. MidyaProf. Mrigendu. MidyaProf. Ribhu MaityProf. Mrigendu. MidyaProf. Ribhu MaityProf. Ribhu MaityProf. Mrigendu. Midya | 150515052060 | 0402 |
| C9T- Inorganic ChemistryC9P- 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. SutradharProf. M MaityDr. N. SutradharDr. N. SutradharDr. N. SutradharProf. M Maity | 102510100560 | 0402 |
| C10T- Organic Chemistry IIC10 P- Organic chemistry LAB | 1. Nitrogen Compounds
2. Rearrangements
3. Logic of organic synthesis
4. Organic Spectroscopy

Estimation of organic compounds | Prof. Goutam Kr. JanaProf. Goutam Kr. JanaDr. B. C. SamantaDr. B. C. SamantaDr. B. C. Samanta | 812152560 | 0402 |
| SEC 2TSEC 2P | Chemistry of cosmetics and pigments | Dr. B. C. SamantaDr. B. C. SamantaDr. N. Sutradhar | 2010 | 0101 |
| GE4T Section A Physical Chemistry IGE4P- LAB Section A | 1. Solution
2. Phase equilibrium
3. Conductance
4. Electromotive force

Physical Chemistry LAB | Prof. Mrigendu. MidyaProf. Mrigendu. Midya Prof. Ribhu MaityProf. Ribhu MaityProf. Ribhu MaityProf. Mrigendu Midya | 786930 | 0201 |
| GE4T Section B TheoryGE4P- LAB Section B | 1. Chemical Analysis
2. Environmental analysis

Analytical and environmental chemistry LAB | Dr. B. C. SamantaProf. Goutam Kr. JanaDr. B. C. SamantaDr. N. Sutradhar | 151530 | 0201 |

**Distribution of the Syllabus**

**SEM-VI, 2020**

**Mugberia Gangadhar Mahavidyalaya**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Code** | **Unit** | **Name of Teacher** | **No of Lecture** | **Credit** |
| C13T-Inorganic Chemistry VC13T-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 SutradharProf. Minakshi MaityProf. Minakshi MaityDr. Narottam SutradharDr. Narottam Sutradhar | 1818101430 | 0402 |
| C14T-Physical Chemistry VC14P-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 MaityProf. Mrigendu MidyaProf. Ribhu Maity & Mrigendu MidyaProf. Ribhu Maity & Mrigendu Midya | 25152030 | 0402 |
| DSE-3DSE 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. SamantaDr. B. C. SamantaDr. N. SutradharDr. N. SutradharDr. N. SutradharDr. B. C. SamantaDr. B. C. Samanta & Dr. N. Sutradhar | 10101010101030 | 0402 |
| DSE-4T Polymer ChemistryDSE4P- 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 MidyaDoDoDoDoDoDoProf. Ribhu MaityDoDoDr. B. C. Samanta | 17888866830 | 0402 |