

POLBA MAHAVIDYALAYA
Departmental Lesson Plan 2019-2020

Name of the Department : Department of Chemistry

Name of the Programme : B.Sc.(General)

Name of the Course (Subject) :CHEMISTRY.....

Period of the Lesson Plan : July'19 to June'20

| Academic Period | Class | Paper | Topic to be covered | No. of lectures | Name of the Teacher | Date of Internal Assessment |
|--------------------|-------|----------------|--|-----------------|---------------------|-----------------------------|
| July'19 to Jan.'20 | SEM-I | GCC-1A/ GE1 | THEORY | 64 | Soumya Sinha Roy | 16.12.19 |
| | | | Organic Chemistry | 32 | | |
| | | | 1. Fundamentals of Organic Chemistry | 04 | | |
| | | | 2. Stereochemistry | 04 | | |
| | | | 3. Nucleophilic Substitution and Elimination Reactions | 05 | | |
| | | | 4. Aliphatic Hydrocarbons | 02 | | |
| | | | Question-Answer Discussion | 01 | | |
| | | | 5. Alkanes | 03 | | |
| | | | 6. Alkenes | 05 | | |
| | | | 7. Alkynes | 05 | | |
| | | | 8. Some specific Reactions | 03 | | |

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|-----------------------|---------|----------------|---|-------------------|------------------|----------|
| | | | Inorganic Chemistry | 32 | | |
| | | | PRACTICAL | 32 x 2 =64 | Soumya Sinha Roy | |
| | | | Qualitative Analysis of Single Solid Organic Compound(s) [Known and Unknown Samples] | 16×2 = 32 | | |
| | | | Inorganic Chemistry | 16×2 = 32 | | |
| July'19 to Jan.'20 | SEM-III | GCC-1C/ GE3 | THEORY | 64 | Soumya Sinha Roy | 13.12.19 |
| | | | 1. Aromatic Hydrocarbons | 04 | | |
| | | | 2. Organometallic Compounds | 06 | | |
| | | | 3. Aryl Halides | 03 | | |
| | | | 4. Alcohols, Phenols and Ethers: | | | |
| | | | (i) Alcohols | 03 | | |
| | | | (ii) Phenols | 03 | | |
| | | | (iii) Ethers | 02 | | |
| | | | 5. Carbonyl Compounds: | | | |
| | | | Aldehydes and Ketones (aliphatic and aromatic) : | 02 | | |
| | | | (i) Preparations | 03 | | |

| | | | | |
|--|--|--|-------------------|------------------|
| | | (ii) Reactions | 03 | |
| | | Thermodynamics upto 1 st law | 08 | |
| | | Thermodynamics 2 nd law | 08 | |
| | | Chemical Equilibrium | 08 | |
| | | Ionic Equilibrium | 08 | |
| | | Question-Answer Discussion | 03 | |
| | | PRACTICAL | 32 x 2 =64 | Soumya Sinha Roy |
| | | Identification of a pure organic compound (Known & Unknown Sample) | 16 | |
| | | Identification of a pure organic compound | 16 | |
| | | Measurement of pH of different solutions like aerated drinks, fruit juices, shampoos and soaps (use dilute solutions of soaps and shampoos to prevent damage to the glass electrode) using pH meter and compare it with the indicator method | 04 | |
| | | Practice | 04 | |
| | | Preparation of buffer solutions and find the pH of an unknown buffer solution by colour matching method (Sodium acetate acetic acid) | 04 | |
| | | Practice | 04 | |
| | | Study of the solubility of benzoic acid in water | 04 | |

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|--------------------|-------|--------|---|-----------|------------------|----------|
| | | | Practice | 04 | | |
| | | | Preparation of buffer solutions and find the pH of an unknown buffer solution by colour matching method (Ammonium chloride ammonium hydroxide) | 04 | | |
| | | | Practice | 04 | | |
| | | SEC-1 | Analytical Clinical Biochemistry | 32 | Soumya Sinha Roy | 13.12.19 |
| | | | Carbohydrates, Proteins, Structure of DNA-----to Gene Therapy, Enzymes | 16 | | |
| | | | Biochemistry of disease: A diagnostic approach by Blood/Urine analysis. | 16 | | |
| July'19 to Jan.'20 | SEM-V | DSE-1A | THEORY | 64 | Soumya Sinha Roy | 03.12.19 |
| | | | Inorganic Chemistry | 32 | | |
| | | | Transition Element | 12 | | |
| | | | Coordination Chemistry | 12 | | |
| | | | Crystal Field Theory | 08 | | |
| | | | Analytical Chemistry: | 16 | | |
| | | | Error Analysis | 08 | | |

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|--|--|--|-------------------|------------------|
| | | Computer Application | 08 | |
| | | Industrial Chemistry | 16 | |
| | | Fuels | 04 | |
| | | Fertilizers | 04 | |
| | | Glass & Ceramics | 04 | |
| | | Cement | 04 | |
| | | PRACTICAL | 32 x 2 =64 | Soumya Sinha Roy |
| | | Titration of Na ₂ CO ₃ and NaHCO ₃ mixture vs HCl using phenolphthalein and methyl orange indicators. | 10 | |
| | | Practice | 06 | |
| | | Titration of HCl and CH ₃ COOH mixture vs NaOH using two different indicators to find the composition | 10 | |
| | | Practice | 06 | |
| | | Estimation of Total hardness of water sample by EDTA titration. | 10 | |

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|--|--|-------|---|-------------------------------------|------------------|--|
| | | | Practice | 06 | | |
| | | | Estimation of available oxygen in pyrolusite. | 10 | | |
| | | | Practice | 06 | | |
| | | SEC-3 | Basic & Application of Computer in Chemistry i. Mathematics ii. Computer Programming | 32 16 16 | Soumya Sinha Roy | |

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| Academic Period | Class | Paper | Topic to be covered | No. of lectures | Name of the Teacher | Date of Internal Assessment |
|-------------------|--------|----------------|--|-----------------|---------------------|-----------------------------|
| Feb'20 to Jun.'20 | SEM-II | GCC-1B/ GE2 | THEORY | 64 | Soumya Sinha Roy | 20.05.20 |
| | | | Kinetic Theory of Gases and Real gases | 08 | | |
| | | | Viscosity | 03 | | |
| | | | Surface Tension | 05 | | |
| | | | Chemical Bonding and Molecular Structure | 16 | | |
| | | | Chemical Kinetics | 08 | | |

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|--------|----------------|--|-----------|------------------|----------|
| | | Solid State | 08 | | |
| | | Comparative study of p-block elements | 16 | | |
| | | PRACTICAL | 64 | Soumya Sinha Roy | |
| | | Determination of the surface tension of a liquid or a dilute solution using Stalagmometer. | 04 | | |
| | | Study of the variation of surface tension of a detergent solution with concentration | 04 | | |
| | | Determination of the relative and absolute viscosity of a liquid or dilute solution using an Ostwald's viscometer | 04 | | |
| | | Study of the variation of viscosity of an aqueous solution with concentration of solute | 04 | | |
| | | Study the kinetics of Iodide persulphate reaction | 06 | | |
| | | Acid hydrolysis of methyl acetate with hydrochloric acid | 04 | | |
| | | Compare the strengths of HCl and H ₂ SO ₄ by studying kinetics of hydrolysis of methyl acetate | 04 | | |
| | | Qualitative semi-micro analysis | | | |
| | | Basic Radicals: Na ⁺ , K ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Cr ³⁺ , Mn ²⁺ , Fe ³⁺ , Ni ²⁺ , Cu ²⁺ , NH ₄ ⁺ . | 16 | | |
| | | Acid Radicals: Cl ⁻ , Br ⁻ , I ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , S ₂ ⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , BO ₃ ³⁻ , H ₃ BO ₃ . | 16 | | |
| | | Practice | 02 | | |
| SEM-IV | GCC-1D/ GE4 | THEORY | 64 | Soumya Sinha Roy | 13.05.20 |

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|--|--|---|-----------|------------------|
| | | Colligative Property | 08 | |
| | | Phase Equilibrium | 08 | |
| | | EMF | 08 | |
| | | Conductance | 08 | |
| | | Gravimetric Analysis | 04 | |
| | | Chromatography | 04 | |
| | | Volumetric Analysis | 08 | |
| | | Environmental Chemistry: The Atmosphere | 08 | |
| | | Environmental Chemistry: The Hydrosphere | 08 | |
| | | PRACTICAL | 64 | Soumya Sinha Roy |
| | | Distribution Law | 04 | |
| | | Practice | 04 | |
| | | Determination of dissociation constant of a weak acid (Conductometrically) | 04 | |
| | | Practice | 04 | |
| | | Total hardness of water by EDTA titration | 08 | |
| | | PH of an unknown solution by comparing color | 08 | |
| | | potentiometric titration: Potassium dichromate vs. Mohr's salt | 08 | |
| | | Practice | 02 | |
| | | conductometric titration: Weak acid vs. strong base | 06 | |
| | | Practice | 02 | |
| | | Rate constant for the acid catalysed hydrolysis of an ester | 08 | |
| | | Strength of the H ₂ O ₂ sample | 04 | |
| | | solubility of a sparingly soluble salt, e.g. KHTa | 04 | |

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| | SEC-2 | Drugs & Pharmaceuticals | 32 | Soumya Sinha Roy | 14.05.20 |
| | | Drug discovery, design and development; analgesics agents, antipyretic agents, anti- inflammatory agents | 07 | | |
| | | Antibiotics; antibacterial and antifungal agents; antiviral agents | 06 | | |
| | | Antiviral agents | 03 | | |
| | | Central Nervous System agents | 03 | | |
| | | Cardiovascular, etc | 02 | | |
| | | Antilaprosy | 04 | | |
| | | HIV-AIDS related drugs, etc. | 04 | | |
| | | Question-Answer Discussion | 03 | | |
| SEM-VI | DSE-1B | THEORY | 64 | Soumya Sinha Roy | 06.05.20 |
| | | 1. Carboxylic Acids and Their Derivatives | | | |
| | | a. Carboxylic acids (aliphatic and aromatic): | 04 | | |
| | | b. Carboxylic acid derivatives(aliphatic): | 04 | | |
| | | 2. Amines and Diazonium Salts: | | | |
| | | (a) Amines (aliphatic and aromatic); | 03 | | |
| | | (b) Diazonium salts | 02 | | |
| | | (c) Nitro compounds (aromatic) | 03 | | |
| | | 3. Amino Acids | 06 | | |

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|--|-------|--|-----------|------------------|
| | | 3.Amino Acids and Carbohydrates: | | |
| | | (ii) Carbohydrates | 08 | |
| | | Polymers | 06 | |
| | | Varnishes | 02 | |
| | | Paints | 04 | |
| | | Synthetic dyes | 04 | |
| | | Drugs and pharmaceuticals | 05 | |
| | | Food additives | 03 | |
| | | Fats and oils | 02 | |
| | | Soaps and detergents | 03 | |
| | | Pesticides | 03 | |
| | | Question-Answer Discussion | 02 | |
| | | PRACTICAL | 64 | Soumya Sinha Roy |
| | | Organic Chemistry(Practical) | 16 | |
| | | Functional Group Organic Chemistry | 16 | |
| | | Estimation of saponification value of oil/fat. | 12 | |
| | | Practice | 04 | |
| | | Estimation of acetic acid in commercial vinegar. | 12 | |
| | | Practice | 04 | |
| | SEC-4 | Polymer Chemistry | 32 | Soumya Sinha Roy |
| | | Introduction and history of polymeric materials | 08 | |
| | | Functionality and its importance | 08 | |
| | | Kinetics of Polymerisation | 06 | |

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| | | Determination of molecular weights | 06 | | |
| | | Properties of Polymers | 04 | | |

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| Academic Period | Class | Paper | Topic covered | Topic Not covered | Reason for Not covered | Date of Internal Assessment | Remarks |
|--------------------|-------|----------------|--|-------------------|------------------------|-----------------------------|---------|
| July'19 to Jan.'20 | SEM-I | GCC-1A/ GE1 | THEORY | | | 16.12.19 | |
| | | | Organic Chemistry | All completed | | | |
| | | | 1. Fundamentals of Organic Chemistry | | | | |
| | | | 2. Stereochemistry | | | | |
| | | | 3. Nucleophilic Substitution and Elimination Reactions | | | | |
| | | | 4. Aliphatic Hydrocarbons | | | | |
| | | | Question-Answer Discussion | | | | |
| | | | 5. Alkanes | | | | |
| | | | 6. Alkenes | | | | |
| | | | 7. Alkynes | | | | |
| | | | 8. Some specific Reactions | | | | |

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|---------|----------------|----------------------------------|--|---------------|--|----------|
| | | | 1. Fundamentals of Organic Chemistry | | | |
| | | | 2. Stereochemistry | | | |
| | | | 3. Nucleophilic Substitution and Elimination Reactions | | | |
| | | | 4. Aliphatic Hydrocarbons | | | |
| | | | Question-Answer Discussion | | | |
| | | | Inorganic Chemistry | All completed | | |
| | | | PRACTICAL | | | |
| | | | Qualitative Analysis of Single Solid Organic Compound(s) [Known and Unknown Samples] | All completed | | |
| | | | Inorganic Chemistry | All completed | | |
| SEM-III | GCC-1C/ GE3 | THEORY | | | | 13.12.19 |
| | | 1. Aromatic Hydrocarbons | | All completed | | |
| | | 2. Organometallic Compounds | | All completed | | |
| | | 3. Aryl Halides | | All completed | | |
| | | 4. Alcohols, Phenols and Ethers: | | All completed | | |
| | | (i) Alcohols | | All completed | | |

| | | | | | |
|--|--|---|---------------|--|--|
| | | (ii) Phenols | All completed | | |
| | | (iii) Ethers | All completed | | |
| | | 5. Carbonyl Compounds: | All completed | | |
| | | Aldehydes and Ketones (aliphatic and aromatic) : | All completed | | |
| | | (i) Preparations | All completed | | |
| | | (ii) Reactions | All completed | | |
| | | Thermodynamics upto 1 st law | All completed | | |
| | | Thermodynamics 2 nd law | All completed | | |
| | | Chemical Equilibrium | All completed | | |
| | | Chemical Equilibrium | All completed | | |
| | | Ionic Equilibrium | All completed | | |
| | | Question-Answer Discussion | All completed | | |

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|--|--|--|--|---------------|--|--|
| | | | PRACTICAL | | | |
| | | | Identification of a pure organic compound (Known & Unknown Sample) | All completed | | |
| | | | Identification of a pure organic compound | All completed | | |
| | | | Measurement of pH of different solutions like aerated drinks, fruit juices, shampoos and soaps (use dilute solutions of soaps and shampoos to prevent damage to the glass electrode) using pH meter and compare it with the indicator method | All completed | | |
| | | | Practice | | | |
| | | | Preparation of buffer solutions and find the pH of an unknown buffer solution by colour matching method (Sodium acetate acetic acid) | All completed | | |
| | | | Practice | | | |
| | | | Study of the solubility of benzoic acid in water | All completed | | |
| | | | Practice | | | |

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|--------------------|-------|--------|---|---------------|--|----------|
| | | | Preparation of buffer solutions and find the pH of an unknown buffer solution by colour matching method (Ammonium chloride ammonium hydroxide) | All completed | | |
| | | | Practice | | | |
| | | SEC1 | Analytical Clinical Biochemistry | All completed | | 13.12.19 |
| | | | Carbohydrates, Proteins, Structure of DNA-----to Gene Therapy, Enzymes | | | |
| | | | Biochemistry of disease: A diagnostic approach by Blood/Urine analysis. | | | |
| July'19 to Jan.'20 | SEM-V | DSE-1A | THEORY | | | 03.12.19 |
| | | | Inorganic Chemistry | All completed | | |
| | | | Transition Element | | | |
| | | | Coordination Chemistry | | | |
| | | | Crystal Field Theory | | | |
| | | | Analytical Chemistry: | All completed | | |
| | | | Error Analysis | | | |
| | | | Computer Application | | | |

| | | | | | |
|--|--|---|---------------|--|--|
| | | Industrial Chemistry | All completed | | |
| | | Fuels | | | |
| | | Fertilizers | | | |
| | | Glass & Ceramics | | | |
| | | Cement | | | |
| | | PRACTICAL | | | |
| | | Titration of Na_2CO_3 and NaHCO_3 mixture vs HCl using phenolphthalein and methyl orange indicators. | All completed | | |
| | | Practice | | | |
| | | Titration of HCl and CH_3COOH mixture vs NaOH using two different indicators to find the composition | All completed | | |
| | | Practice | | | |
| | | Estimation of Total hardness of water sample by EDTA titration. | All completed | | |
| | | Practice | | | |
| | | Estimation of available oxygen in pyrolusite. | All completed | | |

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|--|--|-------|----------|---|------------|--|--|
| | | | Practice | | | | |
| | | SEC-3 | | Basic & Application of Computer in Chemistry | No student | | |
| | | | | Mathematics | | | |
| | | | | Computer Programming | | | |

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| Academic Period | Class | Paper | Topic covered | Topic Not covered | Reason for Not covered | Date of Internal Assessment | Remarks |
|-------------------|--------|----------------|--|-------------------|------------------------|-----------------------------|---------|
| Feb'20 to Jun.'20 | SEM-II | GCC-1B/ GE2 | THEORY | | | 20.05.20 | |
| | | | Kinetic Theory of Gases and Real gases | All completed | | | |
| | | | Viscosity | All completed | | | |
| | | | Surface Tension | All completed | | | |

| | | | | | |
|--|--|---|---------------|--|--|
| | | Chemical Bonding and Molecular Structure | All completed | | |
| | | Chemical Kinetics | All completed | | |
| | | Solid State | All completed | | |
| | | Comparative study of p-block elements | All completed | | |
| | | PRACTICAL | | | |
| | | Determination of the surface tension of a liquid or a dilute solution using Stalagmometer. | All completed | | |
| | | Study of the variation of surface tension of a detergent solution with concentration | All completed | | |
| | | Determination of the relative and absolute viscosity of a liquid or dilute solution using an Ostwald's viscometer | All completed | | |

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|--|--|--|---------------|--|--|
| | | Study of the variation of viscosity of an aqueous solution with concentration of solute | All completed | | |
| | | Study the kinetics of Iodide persulphate reaction | All completed | | |
| | | Acid hydrolysis of methyl acetate with hydrochloric acid | All completed | | |
| | | Compare the strengths of HCl and H ₂ SO ₄ by studying kinetics of hydrolysis of methyl acetate | All completed | | |
| | | Qualitative semi-micro analysis | All completed | | |
| | | Basic Radicals: Na ⁺ , K ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Cr ³⁺ , Mn ²⁺ , Fe ³⁺ , Ni ²⁺ , Cu ²⁺ , NH ₄ ⁺ . | All completed | | |
| | | Acid Radicals: Cl ⁻ , Br ⁻ , I ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , S ²⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , BO ₃ ³⁻ , H ₃ BO ₃ . | All completed | | |
| | | Practice | | | |

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|--|--------|----------------|--|---------------|--|----------|--|
| | SEM-IV | GCC-1D/ GE4 | THEORY | | | 13.05.20 | |
| | | | Colligative Property | All completed | | | |
| | | | Phase Equilibrium | All completed | | | |
| | | | EMF | All completed | | | |
| | | | Conductance | All completed | | | |
| | | | Gravimetric Analysis | All completed | | | |
| | | | Chromatography | All completed | | | |
| | | | Volumetric Analysis | All completed | | | |
| | | | Environmental Chemistry: The Atmosphere | All completed | | | |
| | | | Environmental Chemistry: The Hydrosphere | All completed | | | |
| | | | PRACTICAL | | | | |
| | | | Distribution Law | All completed | | | |
| | | | Practice | | | | |
| | | | Determination of dissociation constant of a weak acid (Conductometrically) | All completed | | | |
| | | | Practice | | | | |
| | | | Total hardness of water by EDTA titration | All completed | | | |
| | | | PH of an unknown solution by comparing color | All completed | | | |
| | | | potentiometric titration: Potassium dichromate vs. Mohr's salt | All completed | | | |
| | | | Practice | | | | |

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|--|-------|--|---------------|--|----------|--|
| | | conductometric titration: Weak acid vs. strong base | All completed | | 14.05.20 | |
| | | Practice | | | | |
| | | Rate constant for the acid catalysed hydrolysis of an ester | All completed | | | |
| | | Strength of the H ₂ O ₂ sample | All completed | | | |
| | | solubility of a sparingly soluble salt, e.g. KHTa | All completed | | | |
| | SEC-2 | Drugs & Pharmaceuticals | All completed | | | |
| | | Drug discovery, design and development; analgesics agents, antipyretic agents, anti-inflammatory agents | | | | |
| | | Antibiotics; antibacterial and antifungal agents; antiviral agents | | | | |
| | | Antiviral agents | | | | |
| | | Central Nervous System agents | | | | |
| | | Cardiovascular, etc | | | | |
| | | Antilaprosy | | | | |
| | | HIV-AIDS related drugs, etc. | | | | |
| | | Question-Answer Discussion | | | | |

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|--|--------|--------|---|---------------|--|----------|--|
| | SEM-VI | DSE-1B | THEORY | | | 06.05.20 | |
| | | | 1. Carboxylic Acids and Their Derivatives | All completed | | | |
| | | | a. Carboxylic acids (aliphatic and aromatic): | All completed | | | |
| | | | b. Carboxylic acid derivatives(aliphatic): | All completed | | | |
| | | | 2. Amines and Diazonium Salts: | All completed | | | |
| | | | (a) Amines (aliphatic and aromatic); | All completed | | | |
| | | | (b) Diazonium salts | All completed | | | |
| | | | (c) Nitro compounds (aromatic) | All completed | | | |
| | | | 3. Amino Acids | All completed | | | |
| | | | 3.Amino Acids and Carbohydrates: | All completed | | | |
| | | | (ii) Carbohydrates | All completed | | | |
| | | | Polymers | All completed | | | |
| | | | Varnishes | All completed | | | |
| | | | Paints | All completed | | | |
| | | | Synthetic dyes | All completed | | | |

| | | | | | |
|--|--|--|---------------|--|--|
| | | Drugs and pharmaceuticals | All completed | | |
| | | Food additives | All completed | | |
| | | Fats and oils | All completed | | |
| | | Soaps and detergents | All completed | | |
| | | Pesticides | All completed | | |
| | | Question-Answer Discussion | All completed | | |
| | | PRACTICAL | | | |
| | | Organic Chemistry(Practical) | All completed | | |
| | | Functional Group Organic Chemistry | All completed | | |
| | | Estimation of saponification value of oil/fat. | All completed | | |
| | | Practice | | | |
| | | Estimation of acetic acid in commercial vinegar. | All completed | | |
| | | Practice | | | |

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| Academic Period | Class | Paper | Topic covered | Topic Not covered | Reason for Not covered | Date of Internal Assessment | Remarks |
|-------------------|--------|-------|---------------|---|------------------------|-----------------------------|---------|
| Feb'20 to Jun.'20 | SEM-VI | SEC-4 | | Polymer Chemistry | No student | | |
| | | | | Introduction and history of polymeric materials | No student | | |
| | | | | Functionality and its importance | No student | | |
| | | | | Kinetics of Polymerisation | No student | | |
| | | | | Determination of molecular weights | No student | | |
| | | | | Properties of Polymers | No student | | |