Class: B. Sc.VI Semester LESSON PLAN (Theory): 2024-25 Subject : Chemistry

Course (CHE-304): Organic Synthesis B &

Course (CHE-305): Chemical Energetics & Radiochemistry

| DATE | LECTURE | TEACHER'S NAME | CHAPTER | ТОРІС |
|------------|---------|----------------------|--|--|
| 16/01/2025 | 1 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Organomagnesium compounds |
| 17/01/2025 | 2 | Mrs. Namrata Mishra | CHE-304, Unit-IV, Organic Synthesis via Enolates | Acidity of σ- hydrogens |
| 18/01/2025 | 3 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Statement , definition of internal energy and enthalpy |
| 20/01/2025 | 4 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Specific conductance molar and equivalent conductance |
| 20/01/2025 | 5 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Grignard reagents |
| 21/01/2025 | 6 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Measurement of equivalent conductance |
| 21/01/2025 | 7 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Heat capacity, heat capacities at constant volume and pressure and their relationship |
| 22/01/2025 | | Dr. S. K. Vernwal | CT | Class Teaching |
| 23/01/2025 | 8 | Dr. S. K. Vernwal | CHE-304, Unit-I, Reagents in Organic Synthesis | A detailed study of the following reagents in organic transformations, oxidation with SeO ₂ |
| 24/01/2025 | 9 | Mrs. Namrata Mishra | CHE-304, Unit-IV, Organic Synthesis via Enolates | Alkylation of diethyl malonate and ethyl acetoacetate |
| 25/01/2025 | 10 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Joule's law Joule- Thomson coefficient and inversion temperature |
| 27/01/2025 | 11 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Measurement of equivalent conductance |
| 27/01/2025 | 12 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Formation, structure and chemical reactions |
| 28/01/2025 | 13 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 28/01/2025 | 14 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Joule's law Joule- Thomson coefficient and inversion temperature |
| 29/01/2025 | | Dr. S. K. Vernwal | ME | Monthly Evaluation |
| 30/01/2025 | 15 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Organolithium compounds |
| 31/01/2025 | 16 | Mrs. Namrata Mishra | CHE-304, Unit-IV, Organic Synthesis via Enolates | Alkylation of diethyl malonate and ethyl acetoacetate |
| 01/02/2025 | 17 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Standard state, standard enthalpy of formation |
| 04/02/2025 | 18 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 04/02/2025 | 19 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Hess's law of heat summation and its applications |
| 05/02/2025 | 20 | Dr. S. K. Vernwal | CHE-304, Unit-I, Reagents in Organic Synthesis | Jones oxidation |
| 06/02/2025 | | Dr. S. K. Vernwal | CT | Class Teaching |

| 07/02/2025 | 21 | Mrs. Namrata Mishra | CHE-304, Unit-III, Organic Synthesis via | Synthesis of ethyl acetoacetate |
|------------|----|----------------------|---|--|
| 08/02/2025 | 22 | Dr. R. Sahay | Enolates CHE-305, Unit-I, Thermodynamics-I | Heat of reaction at constant pressure and at constant volume |
| 10/02/2025 | 23 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 10/02/2025 | 24 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Formation and chemical reactions |
| 11/02/2025 | 25 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 11/02/2025 | 26 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Enthalpy of neutralization |
| 13/02/2025 | 27 | Mrs. Priyanka Mishra | CHE-304, Unit-II, Organometallic Compounds | Formation and chemical reactions |
| 14/02/2025 | | Mrs. Namrata Mishra | CT | Class Teaching |
| 15/02/2025 | 28 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Bond dissociation energy and its calculation from thermo-chemical data |
| 17/02/2025 | 29 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 17/02/2025 | 30 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Nomenclature and structure of the carbonyl groups |
| 18/02/2025 | 31 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 18/02/2025 | 32 | Dr. R. Sahay | CHE-305, Unit-I, Thermodynamics-I | Kirchhoff's equation |
| 19/02/2025 | 33 | Dr. S. K. Vernwal | CHE-304, Unit-I, Reagents in Organic Synthesis | PCC, PDC |
| 20/02/2025 | 34 | Dr. S. K. Vernwal | CHE-304, Unit-I, Reagents in Organic Synthesis | NaBH ₄ |
| 21/02/2025 | | Mrs. Namrata Mishra | ME | Monthly Evaluation |
| 22/02/2025 | 35 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | Second Law of Thermodynamics |
| 24/02/2025 | 36 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 24/02/2025 | 37 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides |
| 25/02/2025 | 38 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
| 25/02/2025 | 39 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | Need for the law, different statements of the law, Carnot cycle and its efficiency |
| 27/02/2025 | 40 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides |
| 28/02/2025 | 41 | Mrs. Namrata Mishra | CHE-304, Unit-III, Organic Synthesis via Enolates | Claisen condensation |
| 01/03/2025 | | Dr. R. Sahay | CT | Class Teaching |
| 03/03/2025 | 42 | Mrs. Divya Dubey | Unit-I, Chemistry of Carbohydrates | Variation of molar, equivalent and specific conductances with dilution |
| 03/03/2025 | 43 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Physical properties |

| 04/03/2025 | 44 | Mrs. Divya Dubey | CHE-305, Unit-III, Electrochemistry | Variation of molar, equivalent and specific conductances with dilution |
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| 04/02/2025 | 15 | D D . C - 1 | · | |
| 04/03/2025 | 45 | Dr. R. Sahay | CHE-305, Unit-II, | Carnot theorem. Thermodynamic scale of |
| | | | Thermodynamics-II | temperature |
| 05/03/2025 | 46 | Dr. S. K. Vernwal | CHE-304, Unit-I, | LiAlH ₄ |
| | | | Reagents in Organic | |
| | | | Synthesis | |
| 06/03/2025 | 47 | Dr. S. K. Vernwal | CHE-304, Unit-I, | DIBAL-H |
| | | | Reagents in Organic | |
| | | | Synthesis | |
| 07/03/2025 | 48 | Mrs. Namrata Mishra | CHE-304, Unit-III, | Keto-enoltautomerism of ethyl |
| 0770372023 | .0 | iviis. I vaiirata iviisira | Organic Synthesis via | acetoacetate |
| | | | Enolates Synthesis via | accioacciaic |
| 08/03/2025 | | Dr. R. Sahay | CT | Class Teaching |
| | | | | Class Teaching |
| 10/03/2025 | 49 | Mrs. Divya Dubey | CHE-305, Unit-III, | Migration of ions and Kohlrausch law |
| | | | Electrochemistry | ivingi attori of folis and Romiausch faw |
| 10/03/2025 | 50 | Mrs. Priyanka Mishra | CHE-304, Unit-III, | Mechanism of nucleophillic additions to |
| | | | Organic compouds of | carbonyl group with particular emphasis |
| | | | Nitrogen | on benzoin |
| 11/03/2025 | 51 | Mrs. Divya Dubey | CHE-305,Unit-III, | |
| 11/03/2025 | 01 | iviis. Bivya Basey | Electrochemistry | Migration of ions and Kohlrausch law |
| 11/03/2025 | 52 | Dr. R. Sahay | CHE-305, Unit-II, | Concept of Entropy, Entropy as a state |
| 11/03/2023 | 32 | Dr. R. Sallay | Thermodynamics-II | function |
| 17/02/2025 | 52 | Mar Diagra Dalaga | | Tunction |
| 17/03/2025 | 53 | Mrs. Divya Dubey | CHE-305,Unit-III, | Migration of ions and Kohlrausch law |
| | | | Electrochemistry | - |
| 17/03/2025 | 54 | Mrs. Priyanka Mishra | CHE-304, Unit-III, | Aldol, Perkin and Wittig reaction |
| | | | Organic compouds of | Oxidation of aldehydes |
| | | | Nitrogen | |
| 18/03/2025 | 55 | Mrs. Divya Dubey | CHE-305, Unit-III, | Microtian of ions and Wahlmanah land |
| | | | Electrochemistry | Migration of ions and Kohlrausch law |
| 18/03/2025 | 56 | Dr. R. Sahay | CHE-305, Unit-II, | Entropy as a function of V & T, entropy as |
| | | | Thermodynamics-II | a function of P & T Entropy change in |
| | | | | Nomenclature and classification of |
| 19/03/2025 | 57 | Dr S K Vernwal | L CHE-304 Unit-LV | i Nomencialne and classification of |
| 19/03/2025 | 57 | Dr. S. K. Vernwal | CHE-304, Unit-IV, | |
| 19/03/2025 | 57 | Dr. S. K. Vernwal | Carboxylic acids and their | aliphatic and aromatic carboxylic acids |
| 19/03/2025 20/03/2025 | 57 | Dr. S. K. Vernwal Mrs. Priyanka Mishra | | |
| 20/03/2025 | | Mrs. Priyanka Mishra | Carboxylic acids and their Functional Derivatives ME | aliphatic and aromatic carboxylic acids Monthly Evaluation |
| | 57 | | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic |
| 20/03/2025 21/03/2025 | 58 | Mrs. Priyanka Mishra Mrs. Namrata Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan |
| 20/03/2025 | | Mrs. Priyanka Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as |
| 20/03/2025 21/03/2025 22/03/2025 | 58 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in |
| 20/03/2025 21/03/2025 | 58 | Mrs. Priyanka Mishra Mrs. Namrata Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 | 58 59 60 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution |
| 20/03/2025 21/03/2025 22/03/2025 | 58 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 | 58 59 60 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 | 58 59 60 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-III, Unit-III, Electrochemistry | aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 | 58 59 60 61 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 | 58 59 60 61 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 | 58 59 60 61 62 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-III, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 | 58 59 60 61 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-III, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 | 58 59 60 61 62 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-III, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids |
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| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 | 58 59 60 61 62 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Mrs. Namrata Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-III, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CT | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching |
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| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 | 58 59 60 61 62 63 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-305, Unit-II, Thermodynamics-II | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 | 58 59 60 61 62 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Mrs. Namrata Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CT CHE-305, Unit-II, Thermodynamics-II CHE-305, Unit-III, Thermodynamics-II | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 07/04/2025 | 58 59 60 61 62 63 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-305, Unit-II, Thermodynamics-II | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific conductances with dilution |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 | 58 59 60 61 62 63 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-305, Unit-II, Thermodynamics-II CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 07/04/2025 | 58 59 60 61 62 63 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Mrs. Priyanka Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CT CHE-305, Unit-II, Thermodynamics-II CHE-305, Unit-III, Electrochemistry CHE-304, Unit-III, | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific conductances with dilution |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 07/04/2025 | 58 59 60 61 62 63 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-305, Unit-II, Thermodynamics-II CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific conductances with dilution |
| 20/03/2025 21/03/2025 22/03/2025 01/04/2025 01/04/2025 02/04/2025 03/04/2025 04/04/2025 05/04/2025 07/04/2025 | 58 59 60 61 62 63 64 65 66 | Mrs. Priyanka Mishra Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Dr. R. Sahay Dr. S. K. Vernwal Dr. S. K. Vernwal Mrs. Namrata Mishra Dr. R. Sahay Mrs. Divya Dubey Mrs. Priyanka Mishra | Carboxylic acids and their Functional Derivatives ME CHE-304, Unit-III, Heterocyclic chemistry CHE-305, Unit-II, Thermodynamics-II CHE-305,Unit-III, Electrochemistry CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CT CHE-305, Unit-II, Thermodynamics-II CHE-305, Unit-III, Electrochemistry CHE-304, Unit-III, | Aliphatic and aromatic carboxylic acids Monthly Evaluation Molecular orbital picture and aromatic characteristics of pyrrole, furan Entropy as a function of V & T, entropy as a function of P & T Entropy change in Variation of molar, equivalent and specific conductances with dilution Ideal gases and mixing of gases Gibbs and Helmholtz Functions Gibbs function (G) Nomenclature and classification of aliphatic and aromatic carboxylic acids Preparation of carboxylic acids Class Teaching Helmholtz function (A) as thermodynamic quantities Variation of molar, equivalent and specific conductances with dilution Clemmensen, Wolff-Kishner |

| 68 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | A&G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change, |
|----|---|--|--|
| 69 | Dr. S. K. Vernwal | CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives | Acidity (effect of substituents on acidity) and salt formation |
| 70 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Molecular orbital picture and aromatic characteristics of thiophene and pyridine |
| | Dr. R. Sahay | CT | Class Teaching |
| 71 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Arrhenius theory of electrolyte dissociation and its limitations |
| 72 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | A&G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change, |
| 73 | Dr. S. K. Vernwal | CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives | Reactions of carboxylic acids |
| 74 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Mechanisms of nucleophilic substitution is and their reductions in acidic, Picric acid, Smixture of primary |
| 75 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | A&G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change, |
| 76 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Ideal and non-ideal solutions, methods of expressing concentrations of solutions, activity and activity coefficient |
| 77 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | An introduction to a,b – unsaturated aldehyde and ketones |
| 78 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Arrhenius theory of electrolyte dissociation and its limitations |
| | Dr. R. Sahay | CT | Class Teaching |
| 79 | Dr. S. K. Vernwal | CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives | Reactions of carboxylic acids, Mechanism of reduction, substitution in alkyl or aryl group, |
| 80 | Dr. S. K. Vernwal | CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives | Stereospecific addition to maleic and fumaric acids, Preparation and reactions of acid chlorides, acid anhydrides |
| 81 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution |
| 82 | Dr. R. Sahay | CHE-305, Unit-II, Thermodynamics-II | A&G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change, |
| 83 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Arrhenius theory of electrolyte dissociation and its limitations |
| 84 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of | Chemical reactions of nitroalkanes |
| 85 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Dilute solution, colligative properties, Raoult's law, relative lowering of vapour pressure, molecular weight determination |
| | Dr. R. Sahay | ME | Monthly Evaluation |
| | Di. K. Sunay | | |
| | 70 71 72 73 74 75 76 77 78 80 81 82 83 84 | 70 Mrs. Namrata Mishra Dr. R. Sahay 71 Mrs. Divya Dubey 72 Dr. R. Sahay 73 Dr. S. K. Vernwal 74 Mrs. Priyanka Mishra 75 Dr. R. Sahay 76 Mrs. Divya Dubey 77 Mrs. Priyanka Mishra 78 Mrs. Divya Dubey Dr. R. Sahay 79 Dr. S. K. Vernwal 80 Dr. S. K. Vernwal 81 Mrs. Namrata Mishra 82 Dr. R. Sahay 83 Mrs. Divya Dubey 84 Mrs. Priyanka Mishra | CHE-305, Unit-II, Thermodynamics-II CHE-304, Unit-IV, Carboxylic acids and their Functional Derivatives CHE-304, Unit-III, Heterocyclic chemistry Dr. R. Sahay CT Thermodynamics-II Thermodynamics-II |

| Extra * | | | | |
|---------|-----|----------------------|---|--|
| * | 87 | Mrs. Priyanka Mishra | CHE-304, Unit-III, | |
| * | 88 | Mrs. Priyanka Mishra | | Mechanisms of nucleophilic substitution i and their reductions in acidic |
| * | 89 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Neutral and alkaline media |
| * | 90 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | |
| * | 91 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Secondary and tertiary amines |
| * | 92 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Structural features effecting basicity of amines |
| * | 93 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Gabriel- phthalimide reaction |
| * | 94 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Hofmann bromamide reaction |
| * | 95 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Reactions of amines |
| * | 96 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Electrophilic aromatic substitution in arylamines |
| * | 97 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Electrophilic aromatic substitution in arylamines |
| * | 98 | Mrs. Priyanka Mishra | CHE-304, Unit-III, Organic compouds of Nitrogen | Reactions of amines with nitrous acid |
| * | 99 | | CHE-304, Unit-III, Heterocyclic chemistry | Mechanism of nucleophilic substitution reaction in pyridine derivatives |
| * | 100 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Comparison of basicity of pyridine |
| * | 101 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Piperidine and pyrrole |
| * | 102 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Mechanism of nelectrophilc substitution reactions of indole |
| * | 103 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Mechanism of electrophilc substitution reactions of quinoline and isoquinoline |
| * | 104 | Mrs. Namrata Mishra | CHE-304, Unit-III, Heterocyclic chemistry | Mechanism of electrophilc substitution reactions of isoquinoline |
| * | 105 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Elevation of boiling point and depression of freezing |
| * | 106 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Thermodynamic derivation of relation between molecular weight and elevation in boiling point |
| * | 107 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Thermodynamic derivation of relation between molecular weight depression in freezing point. |
| * | 113 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Weak and strong electrolytes |
| * | 114 | Mrs. Divya Dubey | CHE-305,Unit-III, Electrochemistry | Weak and strong electrolytes |
| * | 115 | Mrs. Divya Dubey | CHE-305, Unit-IV, Colligative Properties | Osmosis, law of osmotic pressure and its measurement |

| * | 116 | Mrs. Divya Dubey | CHE-305, Unit-III, | Ostwald's dilution law, its uses and |
|---|-----|------------------|------------------------|--|
| | | | Electrochemistry | limitations |
| * | 117 | Mrs. Divya Dubey | CHE-305,Unit-III, | Ostwald's dilution law, its uses and |
| | | | Electrochemistry | limitations |
| * | 118 | Mrs. Divya Dubey | CHE-305, Unit-IV, | Determination of molecular weight from |
| | | | Colligative Properties | osmotic pressure |
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