## **Lesson Plan**

## Mehr Chand Mahajan D.A.V. College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester) Session –2022-2023

Name of Teachers: Dr. Shefali and Dr. Qudrat

**Department:** Chemistry

Class: B. Sc. III Subject: Organic Chemistry

| S. No. | Date<br>(Monthly) |            | Topics to be Covered   | Academic Activity<br>Undertaken* |
|--------|-------------------|------------|--|----------------------------------|
|        | From              | To         |  |                                  |
| 1.     | 21-07-2023        | 04-08-2023 | Unit 1: Electromagnetic spectra: Absorption spectra UV Absorption spectroscopy: Beer Lambert Law, molar absorptivity, presentation and analysis of UV spectra.   | Lecture                          |
| 2.     | 05-08-2023        | 18-08-2023 | Unit 1: UV Absorption spectroscopy: types of electronic transitions, Effects of conjugation, chromophore, auxochromes, bathochromic, hypsochromic, hyperchromic shifts, UV spectra of conjugated enes and enones, Woodward fisher rules and application to conjugated alkenes and carbonyl compounds  Unit 2: Electromagnetic spectra: | Lecture, group discussion        |
|        |                   |            | Absorption spectra IR Absorption spectroscopy: Molecular vibrations, Hooke's law, selection rules, intensity and positions of IR bands,  |                                  |
| 3.     | 19-08-2023        | 27-08-2023 | Unit 2: IR Absorption spectroscopy: measurement of IR spectrum, finger print region, IR absorption of various functional groups, and   | Lecture, group discussion        |

|    |            |            | interpretation of IR spectra of simple organic compounds. Unit 3: Spectroscopy Nuclear Magnetic resonance spectroscopy (NMR): <sup>1</sup> H NMR, nuclear shielding and deshielding, chemical shift, spin-spin coupling, coupling constants.          |                           |
|----|------------|------------|---|---------------------------|
| 4. | 28-08-2023 | 15-09-2023 | Unit 3: Spectroscopy Nuclear Magnetic resonance spectroscopy (NMR): area of signals, interpretation of NMR spectra of simple organic molecules.   | Lecture, group discussion |
| 5. | 16-09-2023 | 26-09-2023 | Unit 4: Carbohydrates Classification and structure, monosaccharides, osazone formation, interconversion of glucose to fructose, chain lengthening and chain shortening of aldoses, configurations of monosaccharides, erythro and threo diastereomers | Lecture, online resources |
| 6  | 27-09-2023 | 05-10-2023 | Unit 4: Carbohydrates Conversion of glucose to mannose, formation of glucosides, ethers and esters, determination of ring size of monosaccharides, cyclic structure of D-glucose, mechanism of mutarotation.  | Lecture, online resources |

| 7  | 06-10-2023   | 20-10-2023     | Structure of ribose and deoxyribose.   | Lecture, online resources |
|--|--|----------------|--|---------------------------|
| 8  | 21-10-2023   | Till exams     | Introduction to disaccharides (maltose, sucrose, lactose) And polysaccharides (starch and cellulose) | Lecture, online resources |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans |  |                |  |                           |
| 30 <sup>th</sup> August,   | The teachers l   |                | the scheduled chapters and topics  | as shown in the lesson    |
| 2023 plan  Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per   |  |                |  |                           |
| lesson plans   |  |                |  |                           |
| 29 <sup>th</sup> Sept,<br>2023   | The teachers have completed the scheduled chapters and topics as shown in the lesson plan          |                |  |                           |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans |  |                |  |                           |
| 31 <sup>st</sup> Oct,  | -  |                |  |                           |
| 2023   | plan   |                |  |                           |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per              |  |                |  |                           |
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| 22 <sup>nd</sup> Nov,<br>2023  | i ne teachers i  | have completed | the scheduled chapters and topics  | as snown in the lesson    |
|  | 2023 plan  v of these – (i) Lecture Method: (ii) PPT: (iii) Online Sources: (iv) Group Discussion: |                |  |                           |

<sup>\*</sup>Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.Other Methods adopted by the teacher – Please write the specific teaching method

## **Lesson Plan**

## Mehr Chand Mahajan D.A.V. College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session –2023-24

Name of Teachers: Dr. Shefali and Dr. Qudrat

**Department:** Chemistry

Class: B. Sc-III Subject: Organic Chemistry

| S. No. | (Mo                  | Date<br>onthly)         | Topics to be Covered  | Academic Activity<br>Undertaken* |
|--------|----------------------|-------------------------|---|----------------------------------|
| 1.     | From<br>09 -01- 2024 | <b>To</b><br>31-01-2024 | Unit 1: Amino acids, Peptides, Proteins and Nucleic acids Classification, structure, stereochemistry of amino acids, acid-base behavior, isoelectric point, electrophoresis, preparation and reactions of   | Lecture                          |
|        |                      |                         | amino acids. Structure and nomenclature, classification of peptides, proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides.   |                                  |
| 2.     | 01.02.2024           | 29.02.2024              | Unit 1: Classical and solid-phase peptide synthesis, Levels of protein structure, protein denaturation/renaturation.  Introduction to nucleic acids, ribonucleosides and ribonucleotides, double helical structure of DNA.  Unit 2: Synthetic polymers  Addition or chain growth polymerization, free radical and ionic vinyl polymerization, Zieglar-Nata Polymerization, vinyl polymers, Condensation Polymerization, | Lecture, group discussion        |

| phenol formaldehyde resins, epoxy resins, urea formaldehyde resins, polyurethanes, Natural and synthetic rubbers.   Unit 3: Organic synthesis via enolates   | 3.     | 01.03.2024       | 15.04.2024        | Unit 2: Polyesters, polyamides,  | Lecture, group         |  |
|--|--------|------------------|-------------------|--|------------------------|--|
| resins, polyurethanes, Natural and synthetic rubbers. Unit 3: Organic synthesis via enolates Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate: Claisen condensation, Keto-enol Tautomerism of ethyl acetoacetate. Alkylation and acylation of enamines.  4. 16.04.2024 Till exam Unit 4: Organometallic Compounds: Grignard reagents- Synthesis, structure and chemical reactions. Organozinc Compounds: Synthesis and chemical reactions.  Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans  30-01-2024  Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans  24-02-2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 28-03-2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 28-03-2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 28-03-2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024  The teachers have completed the scheduled chapters and topics as shown in the lesson plan 2024   |        |                  |                   | * * *  |                        |  |
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| A.   16.04.2024   Till exam  |        |                  |                   | _  |                        |  |
| 4. 16.04.2024 Till exam Unit 4: Organometallic Compounds discussion and Organomagnesium compounds: Synthesis, structure and chemical reactions. Organozinc Compounds: Synthesis and chemical reactions. Organolithium Compounds: Synthesis and chemical reactions. Organolithium Compounds: Synthesis and chemical reactions.    Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans  |        |                  |                   |  |                        |  |
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| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans    Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans    The teachers have completed the scheduled chapters and topics as shown in the lesson plan  |        |                  |                   | _  |                        |  |
| Structure and chemical reactions. Organozinc Compounds: Synthesis and chemical reactions. Organolithium Compounds: Synthesis and chemical reactions. Organolithium Compounds: Synthesis and chemical reactions.    Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans  |        |                  |                   |  | seminar                |  |
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| 2024   | 10.04  |                  |                   |  |                        |  |
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| 77 (3 TH) (31 TT) (32 TT) (3 TT) (4 T |        |                  |                   |  |                        |  |

<sup>\*</sup>Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.Other Methods adopted by the teacher – Please write the specific teaching method