



Lesson Plan (2024-25)

TEACHER: SUSOVAN MANDAL (ORGANIC CHEMISTRY)**UG SEMESTER-I****PAPER: CEMHMJ-101T [MAJOR, (CCFUP)] (ORGANIC CHEMISTRY-I), Stereochemistry I (20 Lectures)**

PERIOD	TOPIC(S) TO BE COVERED
October 2024	Stereochemistry, Bonding geometries of carbon compounds
November 2024	Stereochemistry, Concept of chirality and symmetry, Class test
December 2024	Stereochemistry, Relative and absolute configuration, Assignment
January 2024	Optical activity of chiral compounds, Previous year question solve, Class test

UG SEMESTER-II**PAPER: CEMMI-2T [MINOR, (CCFUP)] (SECTION-A, ORGANIC CHEMISTRY-I)**

PERIOD	TOPIC(S) TO BE COVERED
February 2025	Stereochemistry
March 2025	Nucleophilic Substitution and Elimination Reactions
April 2025	Aliphatic Hydrocarbons
May 2025	Aliphatic Hydrocarbons

UG SEMESTER-III**PAPER: CC-7T (ORGANIC CHEMISTRY-III), Aromatic Substitution and Organometallics (15 Lectures)**

PERIOD	TOPIC(S) TO BE COVERED
August 2024	Electrophilic aromatic substitution
September 2024	Nucleophilic aromatic substitution
October 2024	Grignard reagent
November 2024	Previous year question solve, Class test

PAPER: GE-3T (SECTION-B, ORGANIC CHEMISTRY-II)

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Aromatic Hydrocarbons, Organometallic Compounds
October 2024	Aryl Halides, Alcohols, Phenols and Ethers
November 2024	Carbonyl Compounds

PAPER: GE-3P (SECTION-B, ORGANIC CHEMISTRY LAB)

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Identification of a pure organic compound
October 2024	Identification of a pure organic compound
November 2024	Identification of a pure organic compound

UG SEMESTER-IV**PAPER: CC-10T (ORGANIC CHEMISTRY-IV), The Logic of Organic Synthesis**

PERIOD	TOPIC(S) TO BE COVERED
February 2025	Retrosynthetic analysis
March 2025	Retrosynthetic analysis
April 2025	Retrosynthetic analysis, Strategy of ring synthesis
May 2025	Asymmetric synthesis, Previous year question solve, Class tests

UG SEMESTER-V**PAPER: CC-12T (ORGANIC CHEMISTRY-V): Cyclic Stereochemistry and Bio-molecules**



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PERIOD	TOPIC(S) TO BE COVERED
July 2024	Cyclic Stereochemistry
August 2024	Cyclic Stereochemistry, Amino acids
September 2024	Nucleic acids, Peptides
October 2024	Previous year question solve, Class tests

PG SEMESTER-I**PAPER: CEM 102 (ORGANIC CHEMISTRY):**

PERIOD	TOPIC(S) TO BE COVERED
October 2024	Unit-5: Retrosynthetic analysis-I
November 2024	Unit-5: Retrosynthetic analysis-I
December 2024	Unit-5: Retrosynthetic analysis-I

PG SEMESTER-II**PAPER: CEM 201 (ORGANIC CHEMISTRY):**

PERIOD	TOPIC(S) TO BE COVERED
February 2025	Unit-3: Retro synthetic analysis-II
March 2025	Unit-3: Retro synthetic analysis-II
April 2025	Unit-3: Retro synthetic analysis-II

PG SEMESTER-III**PAPER: CEM 302 (ORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Unit 02: Linear Free Energy Relationship-I
October 2024	Unit 02: Linear Free Energy Relationship-I
November 2024	Unit-03: Linear Free Energy Relationship-II

PAPER: CEM 303 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Unit-02: Bioorganic and Supramolecular Chemistry-II
October 2024	Unit-04: Peptides and Nucleic acids

PAPER: CEM 395 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2024 – December 2024 (16 weeks)	Project work

PG SEMESTER-IV**PAPER: CEM 402 (ORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
February 2025	Unit-03: Biological Active Molecules
March 2025	Unit-04: Vitamins and co-enzymes
April 2025	Unit-04: Vitamins and co-enzymes

PAPER: CEM 403 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
February 2025	Unit-01: Stereochemistry-III
March 2025	Unit- 05: Stereochemistry-VII

PAPER: CEM 495 (ORGANIC CHEMISTRY SPECIALIZATION):



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PERIOD	TOPIC(S) TO BE COVERED
February 2025 – May 2025 (16 weeks)	Project work