



Lesson Plan (2023-24)

TEACHER: SUSOVAN MANDAL (ORGANIC CHEMISTRY)**UG SEMESTER-I****PAPER: CEMMJ1T (MAJOR, UNDER CCFUP PROGRAM] (ORGANIC CHEMISTRY-I), Stereochemistry I (20 Lectures)**

PERIOD	TOPIC(S) TO BE COVERED
October 2023	Stereochemistry, Bonding geometries of carbon compounds
November 2023	Stereochemistry, Concept of chirality and symmetry, Class test
December 2023	Stereochemistry, Relative and absolute configuration, Assignment
January 2023	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 2024	Stereochemistry
March 2024	Nucleophilic Substitution and Elimination Reactions
April 2024	Aliphatic Hydrocarbons
May 2024	Aliphatic Hydrocarbons

PAPER: CC-4T (ORGANIC CHEMISTRY-II), Stereochemistry II (20 Lectures)

PERIOD	TOPIC(S) TO BE COVERED
February 2024	Chirality arising out of stereoaxis
March 2024	Concept of prostereoisomerism, Class Test
April 2024	Conformation, Class Test
May 2024	Previous year question solve, Practice

PAPER: CC-4P (CHEMISTRY LAB)

PERIOD	TOPIC(S) TO BE COVERED
March 2024	Organic Preparations
April 2024	Organic Preparations, Purification
May 2024	Organic Preparations, Purification

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

PERIOD	TOPIC(S) TO BE COVERED
August 2023	Electrophilic aromatic substitution
September 2023	Nucleophilic aromatic substitution
October 2023	Grignard reagent
November 2023	Previous year question solve, Class test

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

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Aromatic Hydrocarbons, Organometallic Compounds
October 2023	Aryl Halides, Alcohols, Phenols and Ethers
November 2023	Carbonyl Compounds

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

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Identification of a pure organic compound
October 2023	Identification of a pure organic compound



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PERIOD	TOPIC(S) TO BE COVERED
November 2023	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 2024	Retrosynthetic analysis
March 2024	Retrosynthetic analysis
April 2024	Retrosynthetic analysis , Strategy of ring synthesis
May 2024	Asymmetric synthesis, Previous year question solve, Class tests

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

PERIOD	TOPIC(S) TO BE COVERED
July 2023	Cyclic Stereochemistry
August 2023	Cyclic Stereochemistry, Amino acids
September 2023	Nucleic acids, Peptides
October 2023	Previous year question solve, Class tests

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

PERIOD	TOPIC(S) TO BE COVERED
October 2023	Unit-5: Retrosynthetic analysis-I
November 2023	Unit-5: Retrosynthetic analysis-I
December 2023	Unit-5: Retrosynthetic analysis-I

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

PERIOD	TOPIC(S) TO BE COVERED
February 2024	Unit-3: Retro synthetic analysis-II
March 2024	Unit-3: Retro synthetic analysis-II
April 2024	Unit-3: Retro synthetic analysis-II

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

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Unit 02: Linear Free Energy Relationship-I
October 2023	Unit 02: Linear Free Energy Relationship-I
November 2023	Unit-03: Linear Free Energy Relationship-II

PAPER: CEM 303 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Unit-02: Bioorganic and Supramolecular Chemistry-II
October 2023	Unit-04: Peptides and Nucleic acids

PAPER: CEM 395 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
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PERIOD	TOPIC(S) TO BE COVERED
September 2023 – December 2023 (16 weeks)	Project work

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

PERIOD	TOPIC(S) TO BE COVERED
February 2024	Unit-03: Biological Active Molecules
March 2024	Unit-04: Vitamins and co-enzymes
April 2024	Unit-04: Vitamins and co-enzymes

PAPER: CEM 403 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
February 2024	Unit-01: Stereochemistry-III
March 2024	Unit- 05: Stereochemistry-VII

PAPER: CEM 495 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
February 2024 – May 2024 (16 weeks)	Project work