



Lesson Plan (2022-23)

TEACHER: SUSOVAN MANDAL (ORGANIC CHEMISTRY)

UG SEMESTER-I

PAPER: CC-1T (ORGANIC CHEMISTRY-I), Stereochemistry I (25 Lectures)

PERIOD	TOPIC(S) TO BE COVERED
October 2022	Bonding geometries of carbon compounds
November 2022	Concept of chirality and symmetry
December 2022	Relative and absolute configuration, Class test
January 2022	Optical activity of chiral compounds , Previous year question solve, Class test

PAPER: CC-1P (CHEMISTRY LAB-I)

PERIOD	TOPIC(S) TO BE COVERED
November 2022	Separation
December 2022	Determination of boiling point
January 2022	Identification of a Pure Organic Compound

PAPER: GE-1T (SECTION-B: ORGANIC CHEMISTRY-I)

PERIOD	TOPIC(S) TO BE COVERED
October 2022	Fundamentals of Organic Chemistry
November 2022	Stereochemistry
December 2022	Aliphatic Hydrocarbons

UG SEMESTER-II

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

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Chirality arising out of stereoaxis
March 2023	Concept of prostereoisomerism, Class Test
April 2023	Conformation, Class Test
May 2023	Previous year question solve, Practice

PAPER: CC-4P (CHEMISTRY LAB)

PERIOD	TOPIC(S) TO BE COVERED
March 2023	Organic Preparations
April 2023	Organic Preparations, Purification
May 2023	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 2022	Electrophilic aromatic substitution
September 2022	Nucleophilic aromatic substitution
October 2022	Grignard reagent
November 2022	Previous year question solve, Class test

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

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Aromatic Hydrocarbons, Organometallic Compounds
October 2022	Aryl Halides, Alcohols, Phenols and Ethers
November 2022	Carbonyl Compounds



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

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Identification of a pure organic compound
October 2022	Identification of a pure organic compound
November 2022	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 2023	Retrosynthetic analysis
March 2023	Retrosynthetic analysis
April 2023	Retrosynthetic analysis, Strategy of ring synthesis
May 2023	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 2022	Cyclic Stereochemistry
August 2022	Cyclic Stereochemistry, Amino acids
September 2022	Nucleic acids, Peptides
October 2022	Previous year question solve, Class tests

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

PERIOD	TOPIC(S) TO BE COVERED
October 2022	Unit-5: Retrosynthetic analysis-I
November 2022	Unit-5: Retrosynthetic analysis-I
December 2022	Unit-5: Retrosynthetic analysis-I

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

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Unit-3: Retro synthetic analysis-II
March 2023	Unit-3: Retro synthetic analysis-II
April 2023	Unit-3: Retro synthetic analysis-II

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

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Unit 02: Linear Free Energy Relationship-I
October 2022	Unit 02: Linear Free Energy Relationship-I
November 2022	Unit-03: Linear Free Energy Relationship-II

PAPER: CEM 303 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Unit-02: Bioorganic and Supramolecular Chemistry-II
October 2022	Unit-04: Peptides and Nucleic acids



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PAPER: CEM 395 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2022 – December 2022 (16 weeks)	Project work

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

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Unit-03: Biological Active Molecules
March 2023	Unit-04: Vitamins and co-enzymes
April 2023	Unit-04: Vitamins and co-enzymes

PAPER: CEM 403 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Unit-01: Stereochemistry-III
March 2023	Unit- 05: Stereochemistry-VII

PAPER: CEM 495 (ORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
February 2023 – May 2023 (16 weeks)	Project work