



DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE

LESSON PLAN (SESSION: 2023-2024)

TEACHER: DR. TARUN MISTRI (INORGANIC CHEMISTRY)

UG SEMESTER-II

PAPER: C3T & C3P

PERIOD	TOPIC(S) TO BE COVERED
March 2023	Chemical periodicity
April 2023	Acid-Base reactions (theory), Acid and Base Titrations (Lab)
May 2023	Practice sessions

PAPER: GE2T & GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2023 -Nov 2023	Chemical Bonding and Molecular Structure (Theory) & Qualitative semimicro analysis of mixtures containing three radicals (Lab)
January 2023	Practice Sessions

UG SEMESTER-III

PAPER: C6T & C6P

PERIOD	TOPIC(S) TO BE COVERED
Aug2023-Sep 2023	Chemical Bonding (I & II) (Theory) & Iodo-/ Iodimetric Titrations (Lab)

UG SEMESTER-IV

PAPER: C9T & C9P

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Coordination Chemistry-I
Mar 2023 -April 2023	Chemistry of s and p Block Elements (Theory) & Complexometric titration (Lab)
May 2023	

PAPER: GE4T & GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2023-March 2023	Chemical Analysis (theory) & Analytic and Environmental Chemistry-LAB
April 2023	Practice Sessions

UG SEMESTER-V

PAPER: C11T & C11P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2023-Sep 2023	Coordination Chemistry-II (Theory) & Chromatography of metal ions (Lab)
October 2023	Practice session & Class tests

PAPER: DSE2T & DSE2P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2023-Aug 2023	Thermal methods of analysis (Theory) & Analysis of soil (Lab)
Sep 2023	Practice Sessions

UG SEMESTER-VI

PAPER: C13T & C13P

PERIOD	TOPIC(S) TO BE COVERED
January 2024	Bioinorganic Chemistry



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PERIOD	TOPIC(S) TO BE COVERED
February 2024	Reaction Kinetics and Mechanism (Theory)
Jan 2024 -March 2024	C13P: Qualitative semimicro analysis of mixtures (Lab)

UG SEMESTER-II (NEP)

PAPER: MJ2T & MJ2P

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Chemical periodicity
October 2024	Acid-Base reactions
Sep 2024-Oct 2024	Oxidation-Reduction Titrimetric (Lab)

PG SEMESTER-I

PAPER: CEM 103 & CEM 195

PERIOD	TOPIC(S) TO BE COVERED
October 2023	Bioinorganic chemistry-I (Theory)
November 2023	Solid state Chemistry and crystallography (Theory)
Oct 2023 -Nov 2023	Analysis of Metals and Alloys (Lab) & Synthesis and Characterization of inorganic compounds (Lab)

PG SEMESTER-II

PAPER: CEM 203:

PERIOD	TOPIC(S) TO BE COVERED
February 2024	Group theory-II
March 2024	Organometallic chemistry –I

PG SEMESTER-III

PAPER: CEM 301 (Common Paper)

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Photophysical processes
October 2023	EPR spectroscopy
November 2023	PES and NQR spectroscopy

PAPER: CEM 302 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2023	Chemical applications of group theory

PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Inorganic photochemistry

PAPER: CEM 395 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Sep 2023 – December 2023	Review work



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PG SEMESTER-IV

PAPER: CEM 402 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2024 -Mar 2024	Magnetochemistry

PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2024 -March 2024	Analytical chemistry

PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2024 – May 2024	Review Work