



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

LESSON PLAN (SESSION: 2022-2023)

TEACHER: DR. TARUN MISTRI (INORGANIC CHEMISTRY)

UG SEMESTER-II

PAPER: C3T & C3P

PERIOD	TOPIC(S) TO BE COVERED
March 2022	Chemical periodicity
April 2022	Acid-Base reactions (theory), Acid and Base Titrations (Lab)
May 2022	Practice sessions

PAPER: GE2T & GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2022 -Nov 2022	Chemical Bonding and Molecular Structure (Theory) & Qualitative semimicro analysis of mixtures containing three radicals (Lab)
January 2022	Practice Sessions

UG SEMESTER-III

PAPER: C6T & C6P

PERIOD	TOPIC(S) TO BE COVERED
Aug2022-Sep 2022	Chemical Bonding (I & II) (Theory) & Iodo-/ Iodimetric Titrations (Lab)

UG SEMESTER-IV

PAPER: C9T & C9P

PERIOD	TOPIC(S) TO BE COVERED
February 2022	Coordination Chemistry-I
Mar 2022 -April 2022	Chemistry of s and p Block Elements (Theory) & Complexometric titration (Lab)
May 2022	

PAPER: GE4T & GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2022-March 2022	Chemical Analysis (theory) & Analytic and Environmental Chemistry-LAB
April 2022	Practice Sessions

UG SEMESTER-V

PAPER: C11T & C11P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2022-Sep 2022	Coordination Chemistry-II (Theory) & Chromatography of metal ions (Lab)
October 2022	Practice session & Class tests

PAPER: DSE2T & DSE2P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2022-Aug 2022	Thermal methods of analysis (Theory) & Analysis of soil (Lab)
Sep 2022	Practice Sessions

UG SEMESTER-VI

PAPER: C13T & C13P

PERIOD	TOPIC(S) TO BE COVERED
January 2023	Bioinorganic Chemistry



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PERIOD	TOPIC(S) TO BE COVERED
February 2023	Reaction Kinetics and Mechanism (Theory)
Jan 2023 -March 2023	C13P: Qualitative semimicro analysis of mixtures (Lab)

PG SEMESTER-I

PAPER: CEM 103 & CEM 195

PERIOD	TOPIC(S) TO BE COVERED
October 2022	Bioinorganic chemistry-I (Theory)
November 2022	Solid state Chemistry and crystallography (Theory)
Oct 2022 -Nov 2022	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 2023	Group theory-II
March 2023	Organometallic chemistry –I

PG SEMESTER-III

PAPER: CEM 301 (Common Paper)

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Photophysical processes
October 2022	EPR spectroscopy
November 2022	PES and NQR spectroscopy

PAPER: CEM 302 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2022	Chemical applications of group theory

PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Inorganic photochemistry

PAPER: CEM 395 (INORGANIC CHEMISTRY SPECIALIZATION):

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

PG SEMESTER-IV

PAPER: CEM 402 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2023 -Mar 2023	Magnetochemistry

PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2023 -March 2023	Analytical chemistry

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2022-2023)****PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Feb 2023 – May 2023	Project Work