

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2023-2024)****TEACHER: SANCHAYITA ADIKARI (INORGANIC CHEMISTRY)****UG SEMESTER-II****PAPER: C3T & C3P**

PERIOD	TOPIC(S) TO BE COVERED
March 2023	Redox Reactions and precipitation reactions (Theory), Oxidation-Reduction Titrimetric (Lab)
April 2023	Extra nuclear Structure of atom (Theory), Acid and Base Titrations (Lab)
May 2023	Practice sessions

PAPER: GE2T & GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2023 -Nov 2023	Comparative study of p-block elements (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) (Theory), Radioactivity (Theory) & Estimation of metal content in some selective samples (Lab)

UG SEMESTER-IV**PAPER: C9T & C9P**

PERIOD	TOPIC(S) TO BE COVERED
February 2023	Noble Gases (Theory) & Inorganic preparations (Lab)
Mar 2023 -April 2023	Inorganic Polymers (Theory) & Complexometric titration (Lab)
May 2023	Practice Sessions

PAPER: GE4T & GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2023-March 2023	Environmental Chemistry (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	Chemistry of d- and f- block elements (Theory) & Gravimetry (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



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UG SEMESTER-VI

PAPER: C13T & C13P

PERIOD	TOPIC(S) TO BE COVERED
January 2024	Organometallic Chemistry(Theory)
February 2024	Catalysis by Organometallic Compounds (Theory)
Jan 2024 -March 2024	Qualitative semimicro analysis of mixtures (Lab)

UG SEMESTER-II (NEP)

PAPER: MJ2T & MJ2P

PERIOD	TOPIC(S) TO BE COVERED
September 2024	Extra nuclear Structure of atom (Theory)
October 2024	Redox and precipitation reactions (Theory)
September 2024 - October 2024	Oxidation-Reduction Titrations (Lab)

PG SEMESTER-I

PAPER: CEM 103 & CEM 195

PERIOD	TOPIC(S) TO BE COVERED
October 2023	Symmetry and Group theory-I (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	Chemistry of p and d-block elements

PG SEMESTER-III

PAPER: CEM 302 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2023	Organometallic chemistry – II and catalysis

PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2023	Bioinorganic chemistry – II

PAPER: CEM 395 (INORGANIC CHEMISTRY SPECIALIZATION):

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

PG SEMESTER-IV

PAPER: CEM 402 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2024 -Mar 2024	Metal carbonyls and clusters



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PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2024 -March 2024	Inorganic reaction mechanism

PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):

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