

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2022-2023)****TEACHER: SANCHAYITA ADIKARI (INORGANIC CHEMISTRY)****UG SEMESTER-II****PAPER: C3T & C3P**

PERIOD	TOPIC(S) TO BE COVERED
March 2022	Redox Reactions and precipitation reactions (Theory), Oxidation-Reduction Titrimetric (Lab)
April 2022	Extra nuclear Structure of atom (Theory), Acid and Base Titrations (Lab)
May 2022	Practice sessions

PAPER: GE2T & GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2022 -Nov 2022	Comparative study of p-block elements (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) (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 2022	Noble Gases (Theory) & Inorganic preparations (Lab)
Mar 2022 -April 2022	Inorganic Polymers (Theory) & Complexometric titration (Lab)
May 2022	Practice Sessions

PAPER: GE4T & GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2022-March 2022	Environmental Chemistry (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	Chemistry of d- and f- block elements (Theory) & Gravimetry (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



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UG SEMESTER-VI

PAPER: C13T & C13P

PERIOD	TOPIC(S) TO BE COVERED
January 2023	Organometallic Chemistry(Theory)
February 2023	Catalysis by Organometallic Compounds (Theory)
Jan 2023 -March 2023	Qualitative semimicro analysis of mixtures (Lab)

PG SEMESTER-I**PAPER: CEM 103 & CEM 195**

PERIOD	TOPIC(S) TO BE COVERED
October 2022	Symmetry and Group theory-I (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	Chemistry of p and d-block elements

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

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2022	Organometallic chemistry – II and catalysis

PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2022	Bioinorganic chemistry – II

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	Metal carbonyls and clusters

PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2023 -March 2023	Inorganic reaction mechanism

PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):



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