

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2020-2021)****TEACHER: DR. TARUN MISTRI (INORGANIC CHEMISTRY)****UG SEMESTER-II****PAPER: C3T & C3P**

PERIOD	TOPIC(S) TO BE COVERED
March 2020	Chemical periodicity
April 2020	Acid-Base reactions (theory), Acid and Base Titrations (Lab)
May 2020	Practice sessions

PAPER: GE2T & GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2020 -Nov 2020	Chemical Bonding and Molecular Structure (Theory) & Qualitative semimicro analysis of mixtures containing three radicals (Lab)
January 2020	Practice Sessions

UG SEMESTER-III**PAPER: C6T & C6P**

PERIOD	TOPIC(S) TO BE COVERED
Aug2020-Sep 2020	Chemical Bonding (I & II) (Theory) & Iodo-/ Iodimetric Titrations (Lab)

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

PERIOD	TOPIC(S) TO BE COVERED
February 2020	Coordination Chemistry-I
Mar 2020 -April 2020	Chemistry of s and p Block Elements (Theory) & Complexometric titration (Lab)
May 2020	

PAPER: GE4T & GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2020-March 2020	Chemical Analysis (theory) & Analytic and Environmental Chemistry-LAB
April 2020	Practice Sessions

UG SEMESTER-V**PAPER: C11T & C11P**

PERIOD	TOPIC(S) TO BE COVERED
Jul 2020-Sep 2020	Coordination Chemistry-II (Theory) & Chromatography of metal ions (Lab)
October 2020	Practice session & Class tests

PAPER: DSE2T & DSE2P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2020-Aug 2020	Thermal methods of analysis (Theory) & Analysis of soil (Lab)
Sep 2020	Practice Sessions

UG SEMESTER-VI**PAPER: C13T & C13P**

PERIOD	TOPIC(S) TO BE COVERED
January 2021	Bioinorganic Chemistry



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PERIOD	TOPIC(S) TO BE COVERED
February 2021	Reaction Kinetics and Mechanism (Theory)
Jan 2021 -March 2021	C13P: Qualitative semimicro analysis of mixtures (Lab)

PG SEMESTER-I

PAPER: CEM 103 & CEM 195

PERIOD	TOPIC(S) TO BE COVERED
October 2021	Bioinorganic chemistry-I (Theory)
November 2021	Solid state Chemistry and crystallography (Theory)
Oct 2021 -Nov 2021	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 2021	Group theory-II
March 2021	Organometallic chemistry –I

PG SEMESTER-III

PAPER: CEM 301 (Common Paper)

PERIOD	TOPIC(S) TO BE COVERED
September 2020	Photophysical processes
October 2020	EPR spectroscopy
November 2020	PES and NQR spectroscopy

PAPER: CEM 302 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2020	Chemical applications of group theory

PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2020	Inorganic photochemistry

PAPER: CEM 395 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
September 2020 – December 2020	Project work

PG SEMESTER-IV

PAPER: CEM 402 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2021 -Mar 2021	Magnetochemistry

PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):

PERIOD	TOPIC(S) TO BE COVERED
Feb 2021 -March 2021	Analytical chemistry

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2020-2021)****PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Feb 2021 – May 2021	Project Work