



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

## LESSON PLAN (SESSION: 2021-2022)

TEACHER: DR. TARUN MISTRI (INORGANIC CHEMISTRY)

## UG SEMESTER-II

## PAPER: C3T &amp; C3P

PERIOD	TOPIC(S) TO BE COVERED
March 2021	Chemical periodicity
April 2021	Acid-Base reactions (theory), Acid and Base Titrations (Lab)
May 2021	Practice sessions

## PAPER: GE2T &amp; GE2 P

PERIOD	TOPIC(S) TO BE COVERED
Oct 2021 -Nov 2021	Chemical Bonding and Molecular Structure (Theory) & Qualitative semimicro analysis of mixtures containing three radicals (Lab)
January 2021	Practice Sessions

## UG SEMESTER-III

## PAPER: C6T &amp; C6P

PERIOD	TOPIC(S) TO BE COVERED
Aug2021-Sep 2021	Chemical Bonding (I & II) (Theory) & Iodo-/ Iodimetric Titrations (Lab)

## UG SEMESTER-IV

## PAPER: C9T &amp; C9P

PERIOD	TOPIC(S) TO BE COVERED
February 2021	Coordination Chemistry-I
Mar 2021 -April 2021	Chemistry of s and p Block Elements (Theory) & Complexometric titration (Lab)
May 2021	

## PAPER: GE4T &amp; GE4P

PERIOD	TOPIC(S) TO BE COVERED
Feb2021-March 2021	Chemical Analysis (theory) & Analytic and Environmental Chemistry-LAB
April 2021	Practice Sessions

## UG SEMESTER-V

## PAPER: C11T &amp; C11P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2021-Sep 2021	Coordination Chemistry-II (Theory) & Chromatography of metal ions (Lab)
October 2021	Practice session & Class tests

## PAPER: DSE2T &amp; DSE2P

PERIOD	TOPIC(S) TO BE COVERED
Jul 2021-Aug 2021	Thermal methods of analysis (Theory) & Analysis of soil (Lab)
Sep 2021	Practice Sessions

## UG SEMESTER-VI

## PAPER: C13T &amp; C13P

PERIOD	TOPIC(S) TO BE COVERED
January 2022	Bioinorganic Chemistry



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PERIOD	TOPIC(S) TO BE COVERED
February 2022	Reaction Kinetics and Mechanism (Theory)
Jan 2022 -March 2022	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 2022	Group theory-II
March 2022	Organometallic chemistry –I

**PG SEMESTER-III**

**PAPER: CEM 301 (Common Paper)**

PERIOD	TOPIC(S) TO BE COVERED
September 2021	Photophysical processes
October 2021	EPR spectroscopy
November 2021	PES and NQR spectroscopy

**PAPER: CEM 302 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Sep-Oct 2021	Chemical applications of group theory

**PAPER: CEM 303 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
September 2021	Inorganic photochemistry

**PAPER: CEM 395 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
September 2021 – December 2021	Project work

**PG SEMESTER-IV**

**PAPER: CEM 402 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Feb 2022 -Mar 2022	Magnetochemistry

**PAPER: CEM 403 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Feb 2022 -March 2022	Analytical chemistry

**DEPARTMENT OF CHEMISTRY (UG & PG), JHARGRAM RAJ COLLEGE****LESSON PLAN (SESSION: 2021-2022)****PAPER: CEM 495 (INORGANIC CHEMISTRY SPECIALIZATION):**

PERIOD	TOPIC(S) TO BE COVERED
Feb 2022 – May 2022	Project Work