

**ACADEMIC PLANNER & UNITIZATION OF SYLLABUS**

Department of Chemistry

Bankura Christian College

ACADEMIC YEAR: 2023-24 (Semester 2<sup>nd</sup> /4<sup>th</sup> /6<sup>th</sup>)4<sup>th</sup> Semester (Hons) Theory (January,2023 to June, 2023)

Name of faculty member: Dr. BibekanandaMahanti

Subject: Chemistry

**Core T9 - Inorganic Chemistry III****Unit – 1.**

Coordination Chemistry-I

Coordinate bonding: double and complex salts. Werner's theory of coordination complexes

Classification of ligands

**Unit – 2.**

Ambidentate ligands, chelates, Coordination numbers

**Unit – 3.**

IUPAC nomenclature of coordination complexes (up to two metal centers), Isomerism in coordination compounds, Constitutional isomerism

**Unit – 4.**

Stereo isomerism, Geometrical and optical isomerism in square planar and octahedral complexes.

MONTH/YEAR	WEEK	PORTIONS
March 2023	2 <sup>nd</sup>	Coordination Chemistry-I Coordinate bonding: double and complex salts.
	3 <sup>rd</sup>	Werner's theory of coordination complexes
	4 <sup>th</sup>	Classification of ligands,
	5 <sup>th</sup>	Class Test-1/ Revision of Unt-1
April 2023	1 <sup>st</sup>	Ambidentate ligands
	2 <sup>nd</sup>	chelates
	3 <sup>rd</sup>	Coordination numbers
	4 <sup>th</sup>	Class Test-2
May 2023	1 <sup>st</sup>	IUPAC nomenclature of coordination complexes (up to two metal centers)
	2 <sup>nd</sup>	Isomerism in coordination compounds
	3 <sup>rd</sup>	Constitutional isomerism
	4 <sup>th</sup>	Revision of Unt-3
June 2023	1 <sup>st</sup>	Stereo isomerism, Geometrical isomerism in square planar and octahedral complexes.
	2 <sup>nd</sup>	Optical isomerism in square planar and octahedral complexes.
	3 <sup>rd</sup>	Class Test-3