Course Description Form

University:Mosul College:Science

Department:Chemistry

1. Course Name: Practical Inorganic Chemistry/3rdclass/Course 1
2. Course Code: SCCH24-F3011
3. Semester / Year:2024-2025
4. Description Preparation Date:8-10-2024
5. Available Attendance Forms: practical experiences
6. Number of Credit Hours (Total)(30) / Number of Units (Total)one units
7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives

Course Objectives	iving a brief overview of complexes, how they are formed, and their types a rms, along with defining ligands, studying their types and forms, and studyi． isomerism and types of isom

9. Teaching and Learning Strategies

Strategy Conducting transitional and hexa-dentate	laboratory experiments on geometric and bonding isomers and typ of complexes for non-transitional elements and comparing them w a study of complexes for di- and ligands.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

First Second Third Fourth Fifth Sixth	2 2 2 2 2 2	Understanding methods preparing complexes transitional a non-transition elements a comparing th with studyi isomers a methods preparing isomers a their types.	Ggeometrical Isomerism(part1 f Ggeometrical Isomerism(part2) Preparation of Cobalt (lll) Complex with bidentate ligand f Aluminium complexes(part1 Aluminium complexes Estimation of the of oxalate Ion theoretically and practically by an analytical method - (part2) Preparation of Cobalt (III) Complex with Hexadentate Ligand (EDTA)	) practical a theoretical	Daily preparati daily, ora semester exam reports

Seventh Eighth Ninth	2 2 2		Acetylaceton Complexes Linkage Isomers Review the course experiences and prepare and get ready for the final exam		

11. Course Evaluation

Daily preparation : 2%

Quiz : 5%

Monthly : 15%

Daily writing : 3%

Reports : 1 %5

End of semester exam :60%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	. .
Main references (sources)	Practical In Inorganic Chemistry Full-text July 2019/Coordination Chemistry Marei M El-Ajaily,Abdussalam Ali Maihub,T.H.Noor ,Omar Al practical inorganic chemistry
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	online learning (google meet,google classroom, youtube)
Curriculum update rate	15%

Name and Signature of Course administrator's head

Name and Signature of the department

Course Description Form

University:Mosul College:Science Department:Chemistry

1. Course Name: Practical Inorganic Chemistry/3rd class/ course2

2. Course Code: SCCH24–F3011

3. Semester / Year:2024_2025

4. Description Preparation Date:8–2–2024

5. Available Attendance Forms: practical experiences

6. Number of Credit Hours (Total)(18) / Number of Units (Total)one units

7. Course administrator's name (mention all, if more than one name)

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8. Course Objectives	
Course Objectives	Preparing tetragonal copper binary complexes and studying th spectroscopic properties using a spectrophotometer, applying Berlamber law theoretically and practically. • Preparation of optical isomers. • Preparation of copper complex with hexadentate ligand and used PH mete • Preparing a hexagonal iron-nickel complex and measuring its spec properties using a spectrophotometer, applying Berlambert's theoretically and practically.

9. Teaching and Learning Strategies	
Strategy	Adding several practical knowledge to students about inorganic chemistry .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	Methods preparation complexes bigonal&hexagonal and studing Isomerism (geometrical&li age)	preparation and spectral study o some copper(ll)complexes (Part preparation and spectral study o some copper(ll)complexes)part	Preparing tet coordinated a hexa-2coordinated complexes a optical isome using spectroscphotmetric metho and benefiti from them future fields.	Daily preparation of daily, oral a semester exams a reports
Second	2				
Third	2		Optical Isomers(part1)		
Fourth	2		Optical Isomers(part2)		
Fifth	2		EDTA With copper complexes		
Sixth	2		preparation and spectral study o some Fe,Ni complexes (Part 1)		
Seveth	2		preparation and spectral study of some Fe,Ni		

Name and Signature of Course administrator's **Name and Signature of the department**

Eighth Ninth	 2 2		complexes(part2) Xanthate complexes Review of experiments and preparation for final exams		

11. Course Evaluation

Daily preparation : 2%

Quiz : 5%

Monthly : 15%

Daily writing : 3%

Reports : 1 5%

End of semester exam :60%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	. .
Main references (sources)	Practical In Inorganic Chemistry Full-text July 2019/Coordination Chemistry Marei M El-Ajaily,Abdussalam Ali Maihub,T.H.Noor ,Omar AlObaidi practical inorganic chemistry
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Blended Learning (offline) and (online :-google meet,goog classroom, youtube)
Curriculum update rate	15%

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