DEPARTMENT OF CHEMISTRY

NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI

COURSE PLAN			
Course title	**Inorganic Preparations and Qualitative Analysis Lab**		
Course code	**CH-611**	**No. of Credits**	**2**
Department	**Chemistry**	**Faculty**	**Dr. M. Karthik**
Course type	**Laboratory course**		
Course Coordinator(s) (if, applicable)			
E-mail:	karthikm@nitt.edu	**Phone:**	9944672121

COURSE OVERVIEW

This is an Laboratory course offered for the M.Sc students (I-Semester). Two credits are awarded for the course. Twoclasses will be conducted every week by a faculty member in Chemistry dept.

COURSE OBJECTIVE

1. To introduce the students to the semi-micro analysis of mixture of cations.
2. To provide them a brief idea about inorganic preparatory methods.

COURSE OUTCOMES (CO)

CO1 learn about the semi-micro analysis of mixture of cations

CO2 learn about the preparation of cobalt compounds

CO3 learn about the preparation of nickel compounds

CO4 learn about the preparation of chromium, manganese and iron compounds

COURSE TEACHING AND LEARNING ACTIVITIES

Sl.No.	Week	Topic	Mode of Delivery
1	II-week Sep/2021	Introduction to Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
2	III-week Sep/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
3	IV-week Sep/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
4	I-week Oct/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
5	II-week Oct/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
6	I-week Nov/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
7	II-week Nov/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT
8	III-week Nov/2021	Preparations & Characterization of organometallic complexes and Semi micro Analysis	PPT

COURSE ASSESSMENT METHODS					
Sl No.	**Week/Date**	**Mode of assessment**	**Portions**	**Duration**	**% Weightage**
1	III-week Oct/2021	CT-I	Lab assessment	II-week Sep/2021 To III-week Nov/2021	40
2	III-week Nov/2021	CT-2	Quiz / Assignment	1 hour	30
3	IV-week Dec/2021	Final Viva and Test	All experiments	3 hour	30
				TOTAL	100

ESSENTIAL READINGS

1. V. V. Ramanujam, *Inorganic Semi-micro Qualitative Analysis*, 3 rd Edition, National Publishing Company, l990.
2. G. Brauer (Ed.), *Handbook of Preparative Inorganic Chemistry (Vol. I and II)*, Academic Press, 1963.

COURSE EXIT SURVEY(mention the ways in which the feedback about the course isassessed and indicate the attainment also)

1. Feedback from students during class committee meetings.
2. Anonymous feedback through questionnaire (as followed previously)

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

1. 75% attendance is compulsory for writing the end semester exam.
2. Whoever failed to appear for Viva I & test I will have to attend the compensation exam which will be conducted in the IV week of Nov. The compensation exam will cover the entire portion (viva 1 and test 1)
3. Whoever failed to make 75% attendance will have to attend the compensation eveningclasses which will be conducted in the IV week of Nov in order to appear for the end semesterexamination

ADDITIONAL COURSE INFORMATION

The respective faculty will be available for consultation at times as per the intimation by the faculty. Location (OJAS-Chemistry)

Coordinator 16.09.2021 **CC-Chairperson** Dr. A. Sreekanth **HOD** 16/09/2021