

UNIVERSITY OF MADRAS
B.Sc. DEGREE PROGRAMME IN CHEMISTRY
 SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Course	GRAVIMETRIC ANALYSIS PRACTICAL						
Paper No.	Core XII(CC12)						
Category	Core	Year	III	Credits	4	Course Code	324C51
		Semester	V				
Instructional hours per week	Lecture	Tutorial	Lab Practice		Total		
	-	-	5		5		
Prerequisites	Theoretical knowledge on Inorganic/analytical chemistry						
Objectives of the course	This course aims at providing <ul style="list-style-type: none"> • basic principles of precipitation • gravimetric estimation of Lead, Barium, sulphate 						
Course Outline	<ol style="list-style-type: none"> 1. Estimation of lead as Lead chromate 2. Estimation of barium as Barium sulphate 3. Estimation of sulphate as Barium sulphate 4. Estimation of barium as barium chromate 5. Estimation of Nickel as Ni(DMG)₂(Not for the examination) 						
Extended Professional Component (is a part of internal component only, Not to be included in the external examination question paper)	Questions related to the above topics, from various competitive examinations UPSC/ JAM /TNPSC others to be solved (To be discussed during the Tutorial hours)						
Skills acquired from this course	Knowledge, Problem solving, Analytical ability, Professional Competency, Professional Communication and Transferable skills.						
Reference Books	Venkateswaran, V.Veerassamy and R. Kulandaivelu, Basic principles of Practical chemistry Second Edition, Sultan Chand & Sons (1977), New Delhi.						
Website and e-learning source	https://www.vlab.co.in/broad-area-chemical-sciences						
Course Learning Outcomes (for Mapping with POs and PSOs) On completion of the course the students should be able to CO1: Describe the principles and methodology for the practical work. CO2: Explain the procedure, data and methodology for the practical work CO3: Apply the principles of phase rule and electrochemistry for carrying out the practical work CO4: Demonstrate laboratory skills for safe handling of the equipment and chemicals							

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	M	S	M
CO2	M	S	S	S	M	S	S	M	M	M
CO3	S	S	S	M	S	S	S	M	S	M
CO4	S	S	S	S	S	S	S	M	M	M

CO-PO Mapping (Course Articulation Matrix)

CO /PO	PO1	PO2	PO3	PO4	PO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
Weightage	12	12	12	12	12
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Level of Correlation between PO's and CO's