

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty : Science

اسم الكلية:

Name of Department: Chemistry

اسم القسم العلمي:

Course Name	Organic Chemistry Lab	اسم المقرر
Course No.	CHEM 257	رقم المقرر
No. of Credits	2	عدد الوحدات
Theoretical Hours	0	عدد الساعات النظرية
Practical Hours	6	عدد الساعات المحلّية
Course topics		مواضيع المقرر
Techniques of physical and chemical characterization: separation and purification (recrystallisation of an organic solid, simple and fractional distillation of organic liquids, column chromatography, paper chromatography, and TLC). Preparation of: Acetophenone, n-pentyl bromide, triphenylcarbinol (triphenyl methanol), methyl benzoate, methyl orange, reductive acetylation of benzyl, and determination of relative rate of electrophilic aromatic substitution. Structure in organic compounds: use of molecular models. Functional groups identification (hydrocarbons, alcohols, aldehydes, ketones, amides, amines, carboxylic acids, esters, alkyl halides). Identification using IR and ¹H NMR spectroscopic techniques.		
Text book: (Name, Author , Year , Publisher)		عنوان الكتاب : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
M. H. Elnagdi, B. Al-Saleh and I. El-Ghamry, Laboratory Manual, Kuwait University Press, Latest edition.		
References: (Name , Author , Year . Publisher)		عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
None		



Prerequisites CHEM 256 + CHEM 258			متطلبات المقرر		
Grading	Exams		%		الاختبارات
	Quizzes		%		امتحانات قصيرة
	H.W.		%		واجبات
	Project (field study)		%		مشاريع (دراسة ميدانية)
	Final		%		الاختبار النهائي
	%				آلية رصد المقرر

Course objectives					
No.	Course Objectives (Learning Outcomes)	Example(s) of relevant (Topics and activities)	Recommended Level to satisfy the objectives		
			High	Medium	Low
1	To introduce techniques used for separation of organic compounds.			X	
2	To introduce preparation of organic compounds.		X		
3	To introduce techniques used for isolating and purification of organic compounds.		X		
4	To introduce the use of molecular models.			X	
5	To introduce the art of using spectral methods in characterizing organic compounds.		X		
Fields					
Skills					
Coordinator (Name and Rank) :		Convener of the organic chemistry			
Signature and stamp :					
Date:		11\ 11 \2025			