

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Organic synthesis lab.
Course number	CHEM4218
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	0
Credit hours (practical)	2
Course Prerequisites	

#### Course Objectives

1 - 1.	To teach the student the proper method of carrying out multi-step preparation techniques that give highest yield and highest purity.1-
2 - 2.	to practice the safe handling of chemicals and equipment's.
3 - 3.	To practice the student with monitoring the chemical reaction with tlc technique

#### Intended Learning Outcomes

Knowledge and Understanding	* the student is expected to have skills in carrying out organic preparations and carrying research in the field of organic chemistry
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#### Course Contents

1 -	This practical course offers selected organic multi-step synthesis of organic compounds.
2 -	The selected experiments cover all topics covered in theoretical organic chemistry,
3 -	extensive study of the mechanisms of the selected reactions.

#### Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Reports quizzes and instructor evaluation 40%		
Final exam 40%		
Midterm 20%		

#### Books and References

Course note	Department lab. Manual.
Essential books	Vogel,s Textbook of Practical Organic Chemistry. Fifth edition.
Recommended books	. Unitized experiments in the organic chemistry.

