

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Dyes And Dyes Technology
Course number	CHEM4203
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Knowing what is the meaning and the history of dye
2 - The types of dyes
3 - classification of dyes
4 - Teqnique of dyeing method
5 - Synthesis of dyes
6 - Physical chemistry of dyeing mechanism

Intended Learning Outcomes

Intellectual Skills	* Ability to recognize and solve problems
Professional Skills	* Writing research of type of dye and discuss it
General Skill	* Write the mechanism of synthesis of dye

Course Contents

1 - This course is a natural continuation of dye Chemistry
2 - History of dye chemistry
3 - Basic operation of dyeing method
4 - Types and classification of fibers
5 - Types and classification of dyes based on uses and chemical structure
6 - Methods of dyeing
7 - Physical chemistry of dyeing mechanism
8 - Tecnology of dye

Teaching and Learning Methods

1 - Teaching and disscussion

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Mid Exam		20%
Secound Exam		20%
Research and discussion		10%
Final Exam		50%

Books and References

Course note	K. Hunger (Editor) Industrial Dyes Chemistry, Properties, Applications
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