

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Pharmaceutics II Lab
Course number	PHTC3110
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	1
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

- 1 - the scope of the practice is to train the student with the basical operations in the small scale
- 2 -

#### Intended Learning Outcomes

Knowledge and Understanding	* Understand the basical operations in the small scale
Intellectual Skills	* To formulate different dosage forms
Professional Skills	* The formulation in the industrial pharmacy in the small scale
General Skill	* To conduct and resolve problems related with the production of solid dosage forms in the small scale

#### Course Contents

- 1 - Powder: properties and preparation, the importance of the particle size reduction, powders for internal and for external application.
- 2 - Granulation: reasons for granulation, additives, steps of granulation sieving analysis, protocol for preparation of granules.
- 3 - Tablets: preparation methods: wet and dry methods and direct compression methods for preparation of tablets.
- 4 - Testing of tablets: Evaluation parameters, hardness, disintegration and dissolution testing of tablets. Tablet coating.
- 5 - Capsules: hard and soft gelatin capsules (formulations)

#### Teaching and Learning Methods

- 1 - Lecture notes

#### Teaching and Learning Methods for the Disabled Students

- 1 - LCD

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
medterm	week 7	40

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**Books and References**

Essential books	Pharmaceutics: The science of dosage form design. Second edition (Michael Aulton). Pharmaceutical Dosage forms and Drug delivery systems. Howard C. Ansel.
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