

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Plant Anatomy
Course number	BIOL3320
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

- 1 - study the plant cell , cell organelles, Types of membranes, the transport through plasma membrane
- 2 - study the solutions types and the relationship between colloidal solution & cytoplasm
- 3 - Discussion some Biological processes as transpiration types, Photosynthesis, Calvin cycle, respiration. Kreps cycle
- 4 - study plant nutrition, physiological diseases , sand culture, water culture
- 5 - study plant enzymes & Hormones

#### Course Contents

- 1 - Introduction to plant physiology
- 2 - Plant cell & cell organelles
- 3 - Plant cell & cell organelles
- 4 - Types of membranes & the transport through plasma membrane
- 5 - Types of solutions
- 6 - The relationship between colloidal solution & cytoplasm . The colloidal properties
- 7 - Transpiration types
- 8 - Photosynthesis, Calvin cycle
- 9 - Respiration. Kreps cycle
- 10 - plant nutrition
- 11 - physiological diseases
- 12 - sand culture, water culture
- 13 - Plant enzymes & Hormones

#### Teaching and Learning Methods

- 1 - lectures
- 2 - Discussion
- 3 - presentations

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First hour exam	60minutes	20
Second hour exam	60minutes	20
presentations		10
Final exam	120minutes	50

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**Books and References**

Essential books	Robert E. Blankenship (2010) Plant physiology
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