

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Practical Cell and Histology
Course number	BIOL2156
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

- 1 - To train the students on microscope uses
- 2 - To learn how to determine the organic matter cell content
- 3 - To Increases at the knowledge for different types of tissues

#### Course Contents

- 1 - Microscope (Uses and care),
- 2 - Qualitative determination on the organic matter of the cell, (Lipid, protein, CHO) from different biological specimens
- 3 - Qualitative determination and extraction of glycogen from biological specimens
- 4 - Qualitative determination and extraction of starch from biological specimens
- 5 - Experiments on osmometer, diffusion, osmosis showing cell membrane integrity.
- 6 - Cell division slides for meiosis and mitosis
- 7 - Slides for the different Types of animal tissues (epithelial, connective, muscular, nervous).
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- 9 - The microscopic slides of some organs; spleen, stomach, small and large intestine, liver, pancreas, islet of Langerhans, thyroid, adrenal
- 10 - The microscopic slides of some organs; spleen, stomach, small and large intestine, liver, pancreas, islet of Langerhans, thyroid, adrenal

#### Teaching and Learning Methods

- 1 - lectures
- 2 - Practical work
- 3 - discussion

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

- 1 - Non

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Mid term	30minutes	30
Exercise		10
Attendance		10
Final exam	60minutes	50

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**Books and References**

Essential books	Becker, WM and others. (2003): The world of the cell 5th edition
Recommended books	Albertsl, B. and others. (2004): Essential cell biology, 2nd edition