

Faculty of Oral & Dental Medicine

Botany & Genetics

Information:

Course Code: SGS 131 Level: Undergraduate Course Hours: 3.00- Hours

Department: Faculty of Oral & Dental Medicine

Instructor Information:

Title	Name	Office hours
Lecturer	Abdelfattah Ahmed Abdelkhalek Ahmed Soliman	1
Assistant Lecturer	Dina Magdy Abdel Salam Abdel Aziz	

Area Of Study:

- ″ÁTo raise awareness of the students to plant cell physiology
- Áro distinguish between different plant cell components microscopically
- "ÁConduct experiments and be able to write a report
- "ÁUnderstand the use of plants in medicine

Description:

molecular biology (proteins, enzymes, DNA mutation, regulation of protein synthesis) genetics (genetic material, gene) and anatomy & morphology of seed plants (general structure of seed plants, variations in structure and development, seeds & seed germination)

Course outcomes:

a. Knowledge and Understanding: :

- 1 Provide the basic knowledge needed for botany science.
- 2 Identify the plant cell structure
- 3 Differentiate between living and nonliving components of the cell
- 4 Raise awareness of the students to plant cell physiology

b.Intellectual Skills::

- 1 Viewing the cellular world
- 2 Distinguish between different plant cell components microscopically.
- 3 Use the library and internet resources to develop independent study skills through assignments.

c.Professional and Practical Skills::

- 1 Identify cell structure of the plant.
- 2 Be able to use the microscope
- 3 Be able to draw specimens up to the microscopic scale
- 4 Conduct experiments and be able to write a report



d.General and Transferable Skills::

1 - Apply the study of plant physiology and cell structure in the production of medicine.

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Plant cell structure	4	Plant cell structure	Plant cell structure
Living and non living components	4	Living and non living component s	Living and non living components
Living and non living components	4	Living and non living component s	Living and non living components
Physiology	4	Physiology	Physiology
Colloids	4	Colloids	Colloids
Colloids	4	Colloids	Colloids
Water transport	4	Water transport	Water transport
Water transport	4	Water transport	Water transport
Solute and solvent transport	4	Solute and solWater transportve nt transport	Water transport
Solute and solvent transport	4	Solute and solWater transportve nt transport	Solute and solWater transportvent transport
Enzymes	4	Enzymes	Enzymes

Teaching And Learning Methodologies:	
Lectures	
Practical training	
Demonstrations	
Small group discussion	

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
1st Mid Term Examination	20.00	6	
2nd Mid Term Examination	20.00	10	
class work	20.00		



Final Written Examination	30.00	
Practical Examination	10.00	

Recommended books:

Principles of Botany by Uno etal., 2007 Biology of plants by Peter Raven 2008