FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

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	Dina Magdy Abdel Salam Abdel Aziz	

Area Of Study :

ÅTo raise awareness of the students to plant cell physiology
ÅTo distinguish between different plant cell components microscopically
ÅConduct experiments and be able to write a report
ÅUnderstand 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 components	Living and non living components
Living and non living components	4	Living and non living components	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 transportvent transport	Water transport
Solute and solvent transport	4	Solute and solWater transportvent 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