Course Specifications

General Information

Course name	Plant Physiology
Course number	BIOL4324
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

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

Course Contents

1 - provide 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 - Types of solutions. The relationship between colloidal solution & cytoplasm .The colloidal properties
7 - Experiments on colloidal properties
8 - Experiments on colloidal properties
9 - Transpiration types
10 - Photosynthesis, Calvin cycle
11 - Respiration. Kreps cycle
12 - plant nutrition, physiological diseases
13 - sand culture, water culture plant enzymes & Hormones plant enzymes & Hormones

Teaching and Learning Methods

1 - lectures
2 - Discussion
3 - presentations

Students Assessment

Assessment Method	TIME	MARKS
First hour exam		20
Second hour exam		20
Attendence		10
Final Exam		50

Books and References

Essential books	Eduardo Zeiger (2013)Plant Physiology, fourth Edition