

Department of General science

College of Basic Education

University of Salahaddin

Subject: Plant physiology

Course Book (First stage)

Lecturer's name Dr.Shahla Mahmood Mohamaad

Academic Year: 2021/2022

Course Book

1-Course name	Botany	
2. Lecturer in charge	Lecturer Dr. Shahla Mahmood	
3. Department/ College	General science Department / Collage of Basic Education	
4. Contact	e-mail: Shahladr@yahoo.com Tel: (optional) 07504020846	
5. Time (in hours) per week	Theory: (4)hours Practical: (0)hours	
6. Office hours		
7. Course code		
8. Teacher's academic profile	started my academic life in1978 BSc in university of sulamania/College of Agriculture/Department of Agronomy .In 1985 I complted MSc in university of salahaddine in Erbil in plant genetic I was a lecturer of statistic and Genetic .After that in 2005 I completed phD in Plant breeding till now Iam lecturer in Basic education college lecturer of genetic science for second stage and genetic for fourth stage .: I have 10 published researches.	
9. Keywords	Botany,,Photosynthesis,Respiration, Transpiration	

- 10. Course overview: Botny is the study of plant "definition of it ,the relation between this science and another science ,studing the theory of this science ,the important of this science for our life ,how the plant makes its food by its self,how we can use it ,how can the plant respires,making the food by the plants ,the relation between the plant and water plant growth and developmet,photosynthesis,respiration ,transpiration, plant hormons
- 11. Course objective: The objective of this subject is to learning the students what is the meaning of botany how we gate our food from the plants, why we can not form the food like the plants, the differences between us and the plants.
- 12. Student's obligation. The role of the students is hom works and examinations.
- 13. Forms of teaching: 1- Data show, explaining on data show in English and Kurdish language 3-White board
- 14. Assessment scheme

The whole course having a rank of%40 for one examinations which has%40 ,because of this subject is one course and the second course is

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zoology another teacher, the same marks—and the final examination h	nave
%60 the total is 100.	
15. Student learning out:By the end of the course students will be able to:	
1-Defination of Botany.	
2-Theory of this science.	
3-The important of this science in our life	
4-Growth and development in plants	
5-Food preparation by photosynthesis in plants.	
16. Course Reading List and References:1	
1-Plant physiology by Delvin(1982)	
2-Plant physiology by SALISARY andROSS(1987)	
3-Introduction to plant (2004) by Willam G. Hoptines and NomanP.A.Honer.	
4-BIOLOGY OF PLANT (1999) Poter.HReve Ray.	
5- Other special refrences.	
17 Practical Topics	
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: 18-The Topics	
Plant hormones and growth regulators:	
Train normones and growth regulators.	

Course Programs

First week (2hrs) Introduction Characteristics of organisms, Special characteristics of plants, What is plant? Why should we care about the study of plants?, Scope of Botany.

Second week (2hrs) The plant World Spermatophyta ,(Gymnosperae ,Angiosperm) Monocotyledons ,Dicotoledons, Plant life cycles , Internal plant parts ,External plant parts,Roots, Type of roots ,Stem ,Type of stems.

Third week (2hrs) Leaves (Type of leaves), Flower(Type of flowers), Fruit (Type of fruites)

Fourth week (2hrs) Seed , Germination , Photosynthesis , Respiration, Transpiration

Fifth week (2hrs) Environmental factors affecting plnt growth Light –Quality, Quantity and Duration

Sixth week (2hrs) Plants in Communities, Plant hormones and growth regulators

Seventh week (2hrs) Pollination and Fertilization ,How do plant get pollen frome one plant to another?

Animal pollinators (Bees ,Butterflies and moths ,Birds ,Mammals

Eighth week (2hrs) Plants in different environments

(Xerophyte, Halphyte, Hydrophyte, Amphibious)

Ninth week (2hrs) Asexual Reproduction

Tenth week (2hrs) Plant Groups (Algae ,Lichens,Bryophyta ,Pteridophyta ,Gymnosperms

Eleventh week (2hrs) Plant Cytology Mitosis Twelfth week (2hrs) Meiosis,

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20. Extra notes : I suggest that this subject is to be studied as yearly instead of					
onr course system.					
21. Peer review					
Z1. Feel Teview					

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