



**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**



zoology another teacher ,the same marks and the final examination have %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:<sup>1</sup>

- 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:

## 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 ,Dicotyledons, 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 fruits )

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

Fifth week (2hrs) Environmental factors affecting plant 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 plants get pollen from 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 ,

<p>20. Extra notes :I suggest that this subject is to be studied as yearly instead of onr course system.</p> <p>21. Peer review</p>	

