

Department of Biology

College of Science

Salahaddin University - Erbil

Subject: General Botanyll

Course Book – (1st Year) Second semester

Lecturer's name Assistant Prof. Dr. Pakhshan M. Maulood

Lecturer's name Bnar Khalid Bakr (Practical)

Academic Year: 2023/2024

Course Bo

1. Course name	General Botany		
2. Lecturer in charge	Pakhshan M. Maulood (Theory)		
	Bnar Khalid Bakr (Practical)		
3. Department/ College	Biology- Science		
4. Contact	e-mail: pakhshan.maulood@su.edu.krd		
	e-mail: <u>bnar.bakr@su.edu.krd</u>		
5. Time (in hours) per week	Theory 2hr./week		
	Practical 3hrs/week		
6. Office hours	To be returned to the schedule on the office door		
7. Course code	SBIO305		
8. Teacher's academic profile	Dr. Pakhshan Mustafa Maulood CV:		
	Attained BSc degree in Biology 1991, Salahaddin		
	University, College of Science. Also, MSc in the same		
	Department in 1997. Attained Scientific title Assistant		
	Prof. on 6-3-2012. In 2020 attained PhD degree at the		
	College of Science- Salahaddin University in Eco-		
	Physiology specification. I published over 15 manuscripts		
	in local and international Journals and participated in		
	several local conferences and workshops.		
	Ms. Bnar CV:		
	I garudate from Salahaddin Univeristy in		
	(2005)(ranked		
	2 nd in collage) worked as Assistant biology for		
	three years		
	in various Lab. As in General biology lab., in		
	histology and embryology lab., in anatomy and		
	taxonomy lab.,		
	In 2008 started in MSc till 2011 finished my		
	MSc		
	degree in plant taxonomy(Participate in teaching		
	method training) then started worked as assistant lecturer in		
	2012 I teaching practical general biology in		
	year 1 for one course after that I started		
	teaching practical plant anatomy and taxonomy		
	in year 2 till now.		
	* During these five year I supervising 8 student in		
	Year 6 at three research project .		
	* For 3 year became head of Herbarium		

9. Keywords	Botany, plant cell, plant tissue
	* Now I am planning to make scientific research for better scientific performance in my field,; Plant anatomy , Plant taxonomy , Plant tissue , Plant parts , Plant morphology feature.
	committee.
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10. Course overview:

Botany means the scientific study of plant life. The course includes the study of plant body in general also plant parts from the cells to the organs and the importance of plants in humans live. The effect of plants on the environment. Photosynthesis process which is the critical factor for the most life features on our planet. At the end of the course, the students be able to understand botany in general, the plant body, tissues, growth, and other important subjects concerning to good understanding plant biology.

11. Course objective:

Botany is an excellent way to introduce you to the world of biology. In this year, we will examine a wide range of topics related to the biology of plants. We will investigate how the individual plant works: how plant bodies are built, how plants obtain and transport food and water, and how plants reproduce themselves. Upon these, the course is covering topics like plant cell, plant tissues, photosynthesis, plant growth, and structure of monocot and dicot seeds, soil and soil profile, alternation of generations and many other topics related to the plant science.

12. Student's obligation

*Exam policy: Student Should take 3 exams during the course There will be no make-up exams for absences students without medical report.

*Classroom polices:

1- Attendance: Students are strongly encouraged to attend class on a regular basis.

2- Lateness: Lateness to class is disruptive

3- Electronic devices: All cell phones are to be turned off at the beginning of class and put away during the entire class.

4-**Talking:** During class please refrain from side conversations. These can be disruptive to your fellow students and your professor

5- No Disrespectful to both the professor and to your fellow students.

13. Forms of teaching

Different forms of teaching will be used to reach the objectives of the course: power point presentations for the head titles and definitions and summary of conclusions, description the types of pollution and their sources and any other illustrations, besides worksheet will be designed to let the chance for practicing on several aspects of the course in the classroom.

Graduate students will be required to review a scientific paper that relates to one of the course topics. The review will consist of a paper that is at a maximum of five pages (typed) in length and an oral presentation of the review (15 minutes in length). The goal is to

have each student relate to the ecology. The format for the paper and presentation will be discussed in class.

14. Assessment scheme

Component	Date	Percent
Exam 1		50
Exam 2		50

15. Student learning outcome:

After completion of this course, you will be able to:

- Define common terms used in botany.
- Identify structure and shape of plants.
- Identify plant parts.
- Understanding plant growth.
- Understanding the relationship between humans and plants.

16. Course Reading List and References:

• Bendre A., and P.C. Pande .2008. *Introductory Botany*, 4th revised edition. New Delhi:Pastogi Publications.

• Raven P. H., R.F.Evert, and S.E. Eichhorn .2005. *Biology of Plants*, 7th ed. New York: W.H. Freeman and Company Publishers.

1- • Stern. K. R. 2006. *Introductory Plant Biology*,9th ed. New York: McGraw - Hill.Higher Education.

17. The Topics: (Theory)	Lecturer's	
	name	
Week one: Morphology of root.	Lecturer's name	
Week Two: Anatomy of root		
Week Three: Structure of seed.		
Week Four: Examination.		
Week Five & Six: Seed germination.		
Week Seven: Fruits.		
Week Eight: Types of fruit.		
Week Nine: Flower.		
Week Ten: Examination.		
Week Eleven: The stem		
18. The Topics: (Practical)	Lecturer's	
	name	
Week 1: Introduction		

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Week 2: Root Morphology	
Week 3: Stem morphology	
Week 4: Leaves morphology	
Week 5: Flowers morphology	
Week 6: Algae	
Week 7: Bryophytes plant	
Week 8: Pteridophytes	
Week 9: Examination	

Examination of practical botany

Name : Group:

Group:

Q11 Identify this samples

1. Identify root in this picture



2. Identify Phylotaxy in this leaf



3. Identify venation in this leaf



4. Identify stem in this picture



5. Identify shape of flower



Q2/ Answer the following

- 1. Write differences between tap root and adventtiouse root?
- 2. Define Dioecious plant
- 3. By drawing differ between simple and compound leaf?
- 4. Write two characteristic of stem ?
- 5. Draw and label complet flower

20. Extra notes:

Here the lecturer shall write any note or comment that is not covered in this template and he/she wishes to enrich the course book with his/her valuable remarks.

21. Peer review

پيداچوونەوەى ھاوەڵ

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

ئەم كۆرسبو وكە دەبنىت لەلايەن ھاوملىدى ئەكادىميەو سەير بكرىت و ناۇ مرۆكى بابەتەكانى كۆرسەكە پەسەند بكات و جەند ووشەيەك بنووسىت لەسەر شياوى ناو مرۆكى كۆرسەكە و واژووى لەسەر بكات. ھاو مل ئەو كەسەبە كە زانبارى ھەيىت لەسەر كۆرسەكە و دەببت بلەي زانستى لە مامۆستا كەمتر نەيىت.