Course Description Form Plant Taxonomy

1. Course Name	
Plant taxonomy	
2. Course Code	
PLAT201	
3. Year /Semester	
2025 / First	
4. Date of preparation of this description	
15-1-2025	
5. Available attendance formats	
Full-time (theoretical lecture and practical lecture) weekly	
6- Number of Credit Hours (Total) / Number of Units (Total)	
٢theoretical hours and 3 hours of practical per week for 14 weeks, the number of units is 3.5 units	
7. Course administrator's name (if more than one name)	
Name: Assoc. Prof. Marwan Sami Said Email: marwansami@uodiyala.edu.iq **Ghofran Ali Hussain**	
8. Course Objectives	
Course Objectives	**1- Plant taxonomy examines the foundations adopted in plant taxonomy, the applied fields of taxonomy and the relationships between plants** **2- Know the different plant organs through which the plant can be classified** **3- Knowing the vegetative and reproductive qualities and their importance in plant classification Methods of plant classification** **4- Studying the evolutionary importance of reproductive organs .** **5- Study of monocotyledonous plants and dicotyledonous plants**
9. Teaching and Learning Strategies	

Strategy	***14 weeks of in-person lectures interspersed with two monthly exams, daily exams, and scientific reports**

10. Course Structure					
Theoretical part					
Evaluation method	**Learning method**	**Unit or subject name**	**Required Learning Outcomes**	**Hours**	**Week**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Introduction to plant classification and its importance - foundations of plant classification and**	**2**	**1**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Applied fields of taxonomy - relationships between plants and classification systems - ancient and**	**2**	**2**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Primitive and advanced traits in plant parts - vegetative and reproductive traits and their importance**	**2**	**3**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Arrangement of floral organs on the floral takht – symmetry of the flower – number of flower rings and number of members**	**2**	**4**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Floral systems - floral equation - Placentation**	**2**	**5**
		First exam		**2**	**6**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**The evolutionary importance of the reproductive parts - non-flowering**	**2**	**7**
Examinations Daily, Monthly and Final	**Watch Dialogue & Discussion**	**Plant taxonomy**	**Evolutionary qualities of flowering plants The origin of flowering plants**	**2**	**8**

Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	Study of plant populations – emphasizing seed plants and family	2	9
Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	Monocotyledonous and dicotyledonous plants Description of selected monocotyledonous families such as	2	10
Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	of selected families of dicotyledons such as leguminous, Malvacaeae and cruciferous	2	11
		Second exam		2	12
Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	Description of selected families of dicotyledons such as Chenopodiaceae and Composite	2	13
Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	Description of selected families of dicotyledons such as Solanaceae, Umbrella and	2	14
Examinations Daily, Monthly and Final	Watch Dialogue & Discussion	Plant taxonomy	Iraqi plants	2	15
Practical part					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Study of the external manifestations of roots - types of roots	3	1
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Study of the leaf - arrangement of leaves on the stem - parts of the leaf - types of leaves	3	2

Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Study of the shape of the blade - the edge of the blade - the top and base of the blade - the types of appendages	3	3
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Study of the external manifestations of the flower, including - types of corolla - types of cup types of stamens - types of pistils	3	4
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	study – Ovarian Placentation and types of eggs – Egg arrangement	3	5
		First exam		3	6
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Floral inflorescences – types of inflorescences (limited inflorescences – unlimited inflorescences)	3	7
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Simple, gathered, multiplied, soft and dry fruits and their species	3	8
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	explain how to use the plant host key, floral chart, and floral ،equation	3	9
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Study of Different Plant Families Using the Plant Families Key	3	10

Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	How to collect plant models – bag model drying plants – plant Fixed	3	11
		Second		3	12
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Methods of keeping plant models in herbariums	3	13
Examinations Daily & Monthly Final and Reports Daily	Watch Dialogue & Discussion	Plant taxonomy	Students collect and diagnose at least twenty-five plant models belonging to different plant families	3	14

11. Course Evaluation
.Daily and monthly exams, reports, and student effectiveness during the lecture

12. Learning and Teaching Resources	
Required textbooks (methodology, if any)	Plant Taxonomy / Dr. Ali Hussein Al-Moussawi, 1987
references (sources)	Recent articles from the Internet, specialized scientific journals and the virtual library
Recommended supporting books and references (scientific journals, reports...)	Iraqi Academic Scientific Journals
Electronic references, websites	plant Science plant taxonomy