

Course Description Form General plant

1. Course Name:				
General plant				
2. Course Code:				
GENP 104				
3. Semester / Year:				
Autumn course 2024-2025				
4. Description Preparation Date:				
15/1/2024				
5. Available Attendance Forms:				
Full time (theoretical lecture and practical lecture) weekly				
6. Number of Credit Hours (Total) / Number of Units (Total)				
2 theoretical hours and 3 practical hours per week for 14 weeks. The number of units is 3.5 units				
7. Course administrator's name (mention all, if more than one name)				
Name: Ahmed Yassin Hassan Email: ahmedhassan@uodiyala.edu.iq				
8. Course Objectives				
Course Objectives		1- General botany lesson is concerned with the morphological, physiological and anatomical study of plants 2- It includes knowledge of the components of the plant cell and the functions of cellular organelles 3- Knowledge of plant tissues, their divisions and components 4- Types and characteristics of roots, stems and leaves 5- Some vital processes in plants		
9. Teaching and Learning Strategies				
Strategy		lectures immanence for 14 weeks, including two monthly exams, daily exams, and scientific reports		
Course Structure				
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method
1	2	Botany and the most important sciences related to it	General plant	Explanation and display of the model And the lecture Dialogue and discussion Brainstorming
2	2	The plant cell, its components, and the functions of its cellular parts	General plant	Explanation and display of the model
3	2	The seed and its germination	General plant	Explanation and display of the model And the lecture

				Dialogue and discussion
4	2	The most important factors affecting seed germination	General plant	Explanation and display of the model And the lecture Dialogue and discussion
5	2	Plant tissues and their divisions	General plant	Explanation and display of the model And the lecture Dialogue and discussion
6	2	Functional role of plant tissues	General plant	Explanation and display of the model And the lecture Dialogue and discussion
7	2	First month exam	General plant	Explanation and display of the model And the lecture Dialogue and discussion
8	2	A morphological study of the root, its types and divisions	General plant	Explanation and display of the model And the lecture Dialogue and discussion
9	2	Morphological study of the stem, its types and sections	General plant	Explanation and display of the model And the lecture Dialogue and discussion
10	2	Morphological study of leaves, their types and sections	General plant	Explanation and display of the model And the lecture Dialogue and discussion
11	2	Morphological study of flowers, fruits and seeds	General plant	Explanation and display of the model And the lecture Dialogue and discussion
12	2	Photosynthesis and the most important factors	General plant	Explanation and display of the model

		affecting it		And the lecture Dialogue and discussion
13	2	Exam	General plant	Explanation and display of the model And the lecture Dialogue and discussion
14	2		General plant	Explanation and display of the model And the lecture Dialogue and discussion
15	2		General plant	Explanation and display of the model And the lecture Dialogue and discussion
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method
1	3	Methods of preparing permanent and temporary slices	General plant	Daily, monthly, final exams and daily reports
2	3	Plant cell and distinguishing its organelles	General plant	Daily, monthly, final exams and daily reports
3	3	Distinguishing between plant and animal cells under the microscope	General plant	Daily, monthly, final exams and daily reports
4	3	Cell division, its types, mitosis and meiosis	General plant	Daily, monthly, final exams and daily reports
5	3	Tissues and their types	General plant	Daily, monthly, final exams and daily reports
6	3	First Exam	General plant	Daily, monthly, final exams and daily reports
7	3	Meristematic, secretory and connective tissues	General plant	Daily, monthly, final exams and daily reports
8	3	Internal anatomy of the root and the growing apex areas of the root	General plant	Daily, monthly, final exams and daily reports
9	3	Internal anatomy of the stem and its modifications	General plant	Daily, monthly, final exams and daily

				reports
10	3	The leaf and identifying its parts and distinguishing them from a morphological point of view	General plant	Daily, monthly, final exams and daily reports
11	3	Exam	General plant	Daily, monthly, final exams and daily reports
12	3	Internal anatomy of the flower and its internal parts	General plant	Daily, monthly, final exams and daily reports
13	3	Fruits and their types	General plant	Daily, monthly, final exams and daily reports
14	3	The effect of the environment on the internal structure of the plant	General plant	Daily, monthly, final exams and daily reports

1. Course Evaluation

Daily and monthly exams, reports, and student effectiveness during the lecture

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- The comprehensive reference in 2- General botany
Main references (sources)	SEEd science. Iraqi academic scientific journals Websites, SEED Science Society of America
Recommended books and references (scientific journals, reports...)	Crop Science Society Of America Library Genesis The field crops _ principles and a practice Agronomy journal. Fundamentals of <i>Weed Science</i>
Electronic References, Websites	Crop Science Society Of America ISTA