

Course Description Form Weed Biology

Course Name	
Weed Biology	
Course Code	
WEEB405	
Semester/ Year	
Second / 2025	
Date of preparation of this description	
15 January 2025	
Available attendance forms	
Full-time (theoretical lecture and practical lecture) weekly	
Credit Hours (total) / Number of Units (Total)	
2 theoretical hours and 3 working hours per week for 14 weeks, the number of units is 3.5 units	
Name of the course administrator (if more than one name is mentioned)	
Dr. Adnan Hussein Ali Al-Wakaa Email: adnanalwakaa@uodiyala.edu.iq	
Husham Abdulwahab Abdulkarim	
Course Objectives	
Objectives of the course :	<ol style="list-style-type: none"> 1- Weed science and ways to combat it discusses the most important Weeds in Iraq and the world the extent of their damage to crop plants and the possibility of benefiting from them by adding methods to combat them 2- It includes knowing, surveying and diagnosing the widespread Weeds in Iraq and some countries of the world 3- Knowing the characteristics of the bush and the specifications of its seeds 4- The means of transport of the bush and the

Teaching and Learning Strategies					
Strategy	• In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports				
Theoretical					
Course Structure					
Week	Credits	Intended Learning Outcomes	Module / Course Name or	Teaching*method	Evaluation Method
1	2	Characteristics of bush plants and seeds	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
2	2	Ways to combat the Weed .Mechanical method, manual extraction.Hoeing	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
3	2	Use of tillage, tilling and immersion in water	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
4	2	The Biological Method in Combating the Weed	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
5	2	Use of competition and agricultural cycle	Weed Biology	Explanation and model presentation and lecture	Examinations Daily and Monthly Final and Reports

				Brainstorming Debating and discussing Brainstorming	day
6	2	Use of heat and coating method	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
First Quarter Examination					
7	2	Scientific terminology used in Weed control and Weed classification	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
8	2	Pesticides and plants .. Absorption and transfer of pesticides	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
9	2	Electoral Pesticides, Factors Affecting Electoral	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
10	2	Pesticides and soil.Reactions to pesticides when pesticides come into contact with soil	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
11	2	Combating Weeds in Iraq's main crop fields	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day

				Brainstorming	
12	2	Fighting Weeds in nurseries and orchards	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
13	2	Water Weed Control Methods	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
Second Quarter Examination					
14	2	Physics of absorption and transfer of pesticides in the soil and the factors affecting them .	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day
15	2	Physics of absorption and transfer of pesticides added to vegetative parts and the factors affecting them	Weed Biology	Explanation and model presentation and lecture Brainstorming Debating and discussing Brainstorming	Examinations Daily and Monthly Final and Reports day

Practical Part					
Week	Credits	Intended Learning Outcomes	Unit or Topic Name	Learning Method	Evaluation Method
1	3	Visit to the fields of the Faculty of Agriculture	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day
2	3	Observations of field operations in field crop fields	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and Reports day

3	3	Crop Service Operations and Deforestation	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
4	3	Weed Diagnosis	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly
5	3	Collecting samples from the bush	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly
6			First Exam		
7	3	Drying the bushes	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
8	3	Collecting bush seeds	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
9	3	Watching the fields and blooming the bush	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly
10	3	Experiences about the transfer of bush seeds	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly
11	3	Experiences about the transfer of bush seeds	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and
12			Second Exam		
13	3	General Applications in Weed Management	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly
14	3	Observations of field operations in field crop fields	Weed Biology	Case history Brainstorming Debating and discussing	Examinations Daily and Monthly Final and

Course Evaluation

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

Learning and Teaching Resources;

<p>Required textbooks (methodology if any)</p>	<p>1- Weed science. Dr.Baqer Al-Jubouri. Weed in Iraq. 2- Dr. Ghanem and Tawfiq Chalabi . The bush and the basics of combat . 3- Abdul Razzaq Al-Jazal and methods of combating it. Dr.Salem Hammadi Antar, 2011 Ibn Al-Atheer PressUnivrsty of Mousel . UNTRANSLATED_CONTENT_END </p>
<p>Key References (Sources)</p>	<p>Recent articles from the Internet, specialized scientific journals, the Journal of Agricultural Sciences - Iraq and the Virtual Library.</p>
<p>Recommended supporting books and references (scientific journals, reports)</p>	<p>Iraqi academic scientific journals</p>
<p>E-References, Websites</p>	<p>Crop Science Society Of America Library Genesis The field crops _ principles and a practice Agronomy journal. weed science. Websites, Articles, FAO reports.</p>