## Course Description Form Weed Biology

Course Name	Course Name			
Weed Biology				
Course Code				
WEEB405				
Semester/ Year				
Second / 2025				
Date of preparation of this descripti	on			
15 January 2025				
Available attendance forms				
Full-time (theoretical lecture and pra	actical lecture) weekly			
Credit Hours (total) / Number of Un				
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 :	<ul> <li>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</li> <li>2- It includes knowing, surveying and diagnosing the widespread Weeds in Iraq and some countries of the world</li> <li>3- Knowing the characteristics of the bush and the specifications of its seeds</li> <li>4- The means of transport of the bush and the</li> </ul>			

Teaching and Learning Strategies						
St	Strategy • In-person lectures for 14 weeks, interspersed with two monthly exams, daily exams and scientific reports					
			Theoreti	cal		
			Course Stru	cture		
Week   Credits   Learning   Course   Leaching*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	day
				Debating and	duy
				discussing	
				Brainstorming	
			Weed	Explanation and	
			Biology	model presentation	Examinations
		U flore and		and lecture	Daily and
6	2	Use of heat and		Brainstorming	Monthly
		coating method		Debating and	Final and Reports
				discussing	day
				Brainstorming	
		First	Quarter Exa	amination	
			Weed	Explanation and	
		Scientific	Biology	model presentation	Examinations
		terminology used		and lecture	Daily and
7	2	in Weed control		Brainstorming	Monthly
		and Weed		Debating and	Final and Reports
		classification		discussing	day
				Brainstorming	
			Weed	Explanation and	
		Pesticides and	Biology	model presentation	Examinations
0		plants		and lecture	Daily and
8	2	Absorption and		Brainstorming	Monthly
		transfer of		Debating and	Final and Reports
		pesticides		discussing	day
			Weed	Brainstorming	
			Biology	Explanation and model presentation	Examinations
		Electoral	Diology	and lecture	Daily and
9	2	Pesticides,		Brainstorming	Monthly
,	-	Factors Affecting		Debating and	Final and Reports
		Electoral		discussing	day
				Brainstorming	5
			Weed	Explanation and	
		Pesticides and	Biology	model presentation	Examinations
		soil.Reactions to		and lecture	Daily and
10	2	pesticides when pesticides come		Brainstorming	Monthly
		into contact with		Debating and	Final and Reports
		soil		discussing	day
		5011		Brainstorming	
			Weed	Explanation and	Examinations
11	2	Combating Weeds in Iraq's	Biology	model presentation	Daily and
				and lecture	Monthly
		main crop fields		Brainstorming	Final and Reports
		I I I I I I I I I I I I I I I I I I I		Debating and	day
				discussing	

				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	Examinations Daily and Monthly Eincl and
2	3	Observations of field operations in field crop fields	Weed Biology	Case history Brainstorming Debating and	Examinations Daily and Monthly Final and

		Crop Service	Weed Biology	Case history	Examinations
3	3	Operations and		Brainstorming	Daily and
		Deforestation		Debating and	Monthly
			Weed Dielegy	discussing Case history	Examinations
4	3	Wood Diagnosia	Weed Biology	Case history	
4	5	Weed Diagnosis		Brainstorming Debating and	Daily and Monthly
			Weed Dieless	-	Examinations
5	3	Collecting samples	Weed Biology	Case history	
5	3	from the bush		Brainstorming	Daily and
				Debating and	Monthly
6			First Exam		
				Case history	Examinations
7	3	Dring the hushes	Wood Diology	Brainstorming	Daily and
/	5	Drying the bushes	Weed Biology	Debating and	Monthly
				discussing	Final and
			Weed Biology	Case history	Examinations
8	3	Collecting bush		Brainstorming	Daily and
0		seeds		Debating and	Monthly
		Watching the fields	Weed Biology	Case history	Einol and Examinations
9	3	and blooming the	weed blology	Brainstorming	Daily and
9	5	bush		Debating and	Monthly
		Experiences about	Weed Biology	Case history	Examinations
10	3	the transfer of bush	weed blology	Brainstorming	Daily and
10	5	seeds		Debating and	Monthly
			Weed Biology	Case history	Examinations
11		Experiences about	weeu blology	Brainstorming	Daily and
11	3	the transfer of bush		Debating and	Monthly
		seeds			Einel and
12			Second Exam		
		General Applications	Weed Biology	Case history	Examinations
13	3	in Weed		Brainstorming	Daily and
		Management		Debating and	Monthly
			Weed Biology	Case history	Examinations
14		Observations of field		Brainstorming	Daily and
14	3	operations in field		Debating and	Monthly
		crop fields		discussing	Final and
l	L			0	

## Course Evaluation

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

Learning and Teaching Resources;

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