

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Science Field Crops
Stage: three
Lecturer name: Nadir Flayh Ali
Academic Status: prof.
Qualification: Post Doc.
Place of work: College Agriculture/
University of Diyala

Flow up of implementation celli

Course Instructor	Nadir Flayh Ali Almubarak				
E_mail	nadiralmubarak@uodiyala.edu.iq				
Title	Cereal crops				
Course Coordinator	Spring Course				
Course Objective	The course gives many subject, which it is learning student, how Cereal crops work on different hard climate and that it effect , on their characteristics , so there are many method to classification .according to factor of climate				
Course Description	<p>-1-For the student to learn about the economic importance of grain crops and their production centers in the world.</p> <p>-2-The student will be familiar with soil service operations, such as plowing, smoothing, and leveling grain crops.</p> <p>-3-The student should be familiar with the importance of the variety in the production and development of grain crops.</p> <p>-4-That the student understands crop service operations, including combating weeds, cultivation methods, planting dates, and others.</p> <p>-5-The student should know the growth stages of each grain crop.</p> <p>6- To know the modern scientific methods used to increase crop production and improve quality.</p>				
Textbook	<p>Wheat cultivation and production techniques / Gamal Al-Shibini. First edition. Egyptian Library 2009.</p> <p>The scientific book on grain manufacturing / Abbas Hassan Hussein. First edition. University of Baghdad 2009.. Production of field crops, Dr. Salah El-Din Abdel-Razzaq Shafshaq and Dr. Abdul Hamid Al-Sayyid Al-Dabbabi, 2008, Dar Al-Fikr Al-Arabi, Egypt.. Production of field crops / Dr. Abdul Majeed Al-Ansari, University of Baghdad 1981.</p> <p>Production and improvement of field crops, Dr. Abdul Hamid Ahmed Al-Younis, 1993, Dar Al-Kutub Directorate for Printing and Publishing - Baghdad..</p> <p>Grain and legume crops (practical part), Dr. Kamel Muhammad Al-Khafaji, University of Baghdad 2009.</p>				
References	Library Genesis The field crops _ principles and a practice Agronomy journal. Websites, Articles, FAO reports				
Course Assessment	final	Report	coz	Lab	Semester
	%40	%5	%5	%15	%35

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University: Diyala
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Agriculture/ University of Diyala

Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
	1 st week	Theoretical	Lab.	
1	2 nd week	Economic importance - production centers	Botanical division of cereal crops. Botanical description - germination.	
2	3 rd week	Wheat - economic importance - production centers - Growth stages - dividing wheat	Climatic conditions - botanical description.	
3	4 th week	Irrigation - laying - maturity - harvesting - threshing - productivity - storage - improving wheat - stages of flour production	Agricultural cycle - service operations and land preparation.	
4	5 th week	Barley - economic importance - production centers	Wheat pests - diseases - insects - weeds.	
First exam				
6	7 th week	Maturity - harvesting - threshing - storage - productivity - cultivation methods for barley	Climatic conditions - botanical description.	
7	8 th week	Rice - economic importance - production centers	Agricultural cycle - service operations and land preparation - fertilization - irrigation. Barley pests.	
8	9 th week	Growth stages of rice - rice in the world - division of rice - nutritional value - distribution in Iraq – varieties	Climatic conditions - botanical description.	
9	10 th week	Ripening - harvesting - threshing - drying - productivity - rice flour - cooking quality characteristics.	Location of rice in the agricultural cycle - soil - planting time - planting methods - seed quantity.	
10	11 th week	Corn - economic importance - chemical composition of the corn kernel - geographical distribution - historical overview - origin... Maturity - harvest - method of breeding and improvement.	Fertilization - irrigation - pests - diseases - insects – weeds	
11	12 th week	sorghum - economic importance - types of sorghum - distribution in Iraq - maturity - harvest and threshing.	Botanical description - varieties - soil and crop service operations.	

12	13 th week	Millet - economic importance - production centers - types of millet - maturity - harvest - productivity – quality	Climatic conditions - botanical description - varieties - soil and crop service operations - pests and their resistance.	
Second exam				
14	14 th week	Oats - economic importance - production centers - types of oats - maturity - harvest - productivity - quality.	Climatic conditions - agricultural cycle - plant description - varieties - soil and crop service operations - pests and their resistance.	
15	15 th week	Rye - economic importance - production centers - types of rye - maturity - harvest - productivity – quality	Climatic conditions - agricultural cycle - plant description - varieties - soil and crop service operations - pests and their resistance.	

Instructor Signature
Prof.Dr. Nadir Flayh Ali
2025/1/15

Dean Signature
Prof.Dr. Raaed Ibrahim Khalil
2025/1/15