

Republic of Iraq

The Ministry Of Higher  
Education

& Scientific Research

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



University: Diyala  
College: agriculture  
Department: Horticulture and  
Land Scape Gardening  
Stage: 4  
Lecturer name: Ass. Prof.  
Khalid Ibrahim Mustaf  
Qualification:  
Place of work: University of  
Diyala

## Course Weekly Outline of Post harvest physiology of Fruit

<b>Ass. Prof. Khalid Ibrahim Mustaf</b>				<b>Teaching Name:</b>	
<a href="mailto:khalidibrahim@uodiyala.edu.iq">khalidibrahim@uodiyala.edu.iq</a>				<b>Email:</b>	
<b>Post harvest physiology of Fruit</b>				<b>Material Name:</b>	
<b>Second</b>				<b>Semester Course:</b>	
<b>Identify the importance of cold storage.</b>				<b>Course Objectives:</b>	
<b>Studying methods of storing the most important horticultural crops, including student reports with delivery and discussion, and assigns each student in the division to prepare a report on one of</b>				<b>Basic details of the material:</b>	
<b>Physiology of fruits after harvest - 1985 - d. Abdul Ilah Mikhlif Al-Ani</b>				<b>Textbooks:</b>	
				<b>External sources:</b>	
<b>Final Grade</b>	<b>Final Exam</b>		<b>Annual Quest</b>		<b>Semester</b>
<b>100</b>	<b>Practical</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Theoretical</b>	<b>The first</b>
	<b>20</b>	<b>40</b>	<b>15</b>	<b>25</b>	
<b>3.5</b>					<b>Number of Units:</b>

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Observations	Practical material	Theoretical material	Date	Week
	Anatomical, morphological and natural traits .	The economic importance of storage and the amount of loss as a result of storage		1
	Anatomical, morphological and natural traits .	Growth and ripening of fruits and their relationship to phytohormones		2
	Study of measures of maturity completion	Physiological and chemical changes that occur to fruits during ripening and storage		3
	Study of the change in hardness and pectins	Measures of completion of growth, maturity and determination of harvest date		4
	Study of the change in the content of fruits of organic acids and pH	The mechanism of breathing in fruits during growth, ripening and storage .		5
	Study of the change in the content of fruits of vitamin C	artificial ripening of fruits", weight loss after harvest .		6
	Study of the change in the content of fruits of total and reducing sugars and pigments	Methods of harvesting, sorting, grading and packaging of horticultural crops and the transactions carried out on them		7
	Study of the change in the content of fruits of total and reducing sugars and pigments	Pre-shipment and storage cooling methods for horticultural crops, refrigerated storage for horticultural crops.		8
	Study of the change in the breathing of fruits and methods of estimating the speed of breathing in them	Pre-shipment and storage cooling methods for horticultural crops, refrigerated storage for horticultural crops.		9
	Study of the change in the breathing of fruits and methods of estimating the speed of breathing in them	Storage of horticultural crops in a modified air atmosphere		10
	Studying the methods of storing the most important horticultural crops and include student reports with delivery and discussion and assigns each student to the Division to prepare a report on one of the horticultural crops and meet it and discuss it with students and the supervisor of the process .	Storage of horticultural crops in a rarefied air atmosphere		11
	Studying the methods of storing the most important horticultural crops and include student reports with delivery and discussion and assigns each student to the Division to prepare a report on	General principles for determining quality grades and their importance, factors of deterioration of the qualitative and nutritional value of horticultural crops after harvest and during storage		12

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	one of the horticultural crops and meet it and discuss it with students and the supervisor of the process .		
	Studying the methods of storing the most important horticultural crops and include student reports with delivery and discussion and assigns each student to the Division to prepare a report on one of the horticultural crops and meet it and discuss it with students and the supervisor of the process .	Plucking, handling and storing important types of cut flowers and bulbs	13
	Studying the methods of storing the most important horticultural crops and include student reports with delivery and discussion and assigns each student to the Division to prepare a report on one of the horticultural crops and meet it and discuss it with students and the supervisor of the process .	Plucking, handling and storing important types of cut flowers and bulbs	14
	A visit to one of the cold stores .	Plucking, handling and storing important types of cut flowers and bulbs	15

**Signature of the professor:**

**Signature of the Dean:**

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