

Republic of Iraq
The Ministry Of Higher
Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Horticulture
Stage: Forth stage
Lecturer name: Adnan Ghazi
Qualification: PH.D
Place of work: College of
Agriculture

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Course Instructor	Adnan Ghazi Salman				
E_mail	adnanghai@uodiyala.edu.iq				
Title	Horticultural seeds production and storage				
Course Objective	The aim of this course is give the students information about the importance of improved seeds and the methods that use to produce and store them, the factors affecting of seed production , germination and extraction, and also aims to ho to maintain its vitality, storage and circulation in the market within the laws and regulations prevailing in Iraq.				
Course Description	The essential details of this course is study the morphological and physiological traits of seeds and recognize the institutions that deal of seed production and introduce the students the feature of every yield that related in production of new plants and varieties , and prepare the fields and storage of vegetables crops.				
Prequests	1-vegetable production 2- plant breeding				
Textbook References	1-Vegetable plants production 2- vegetable plans physiology and adaptation				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	25	15		----	As (60%)
General Notes					

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week	Date	Topics Covered	Practical Part
1		Seed definition, fertilization, seed formation, and polyembryony.	Recognition of vegetables families and horticultural plants
2		Seeds identification (seed morphology, seed autonomy and chemical components of seeds)	Seeds testing and testing tools
3		seed importance , propagation of vegetable crops , seeds orders , production of improved seeds, registration and adoption of varieties	Steps of seed testing and recognition of Iraqi and global seed institutions
4		Institutions of improved seed production.	Seed germination testing and measure rate of germination in dishes
5		Variant and purity of varieties, sustain of breeder seed in self and cross pollination crops	Seeds weight and purity testing
6		Field inspection (determinate of field state before and after F, I. The feature of field inspector , methods of choosing samples	Determination of moisture and chemical content of seeds
7		Factors effect of flowering and seed formation (light, plant age, temperature, photoperiodisim and vernalization	Seed vitality testing by using tetrazolium pigment
8		Seeds vitality and factors effect of vitality	Seedlings evaluation
9		Seeds dormancy (importance of external dormancy and methods to overcome it. The role of light to overcome the dormancy , the dormancy in vegetative parts of plant.	Methods of potato seeds production
10		Seeds preparation (determine of harvest date, drying extraction, grading and packaging of seeds.	Methods of seeds drying
11		Methods of vegetable seeds production(seed to seed, seed propagation, methods of extraction of some vegetables families seeds	Types of vegetables seeds packaging
12		Methods of seeds storage and packaging	Seeds treating of chemicals in stores to prevent diseases
13		Factors effect on vitality of stored seeds	Practical Visiting of seed production institutions
14		Seed pests in field and store	Seeds treating of chemicals in stores to prevent pests
15		Trading and marketing of seeds and laws and regulations that covering them	Practical Visiting of seed production institutions

Instructor Signature:

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