Republic of Iraq

The Ministry of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم

University: Diyala
College: Agriculture
Department: Horticulture and landscaping
Stage: Fourth
Lecturer name: Raad Wheeb Mhmood
Scientific title: assistant professor
Qualification: PhD
Place of work: College of Agriculture

Flow up of implementation celli pass play

Course Instructor	Raad Waheeb Mahmoud				
E-mail	raadalzuhairi@uodiyala.edu.iq				
Title	Landscape architecture				
Course Coordinator	First semester				
Course Objective	At the end of the course, the trainee must have the ability to know the scientific rules for creating a natural landscape, analyze its components, and design an integrated natural landscape suitable for the labor market.				
Course Description	Garden Engineering and Design, Dr. Talal Al-Chalabi (1990). Ornamental and garden design, Dr. Sami Karim and Mohsen Khalaf (1989).				
Textbook	Fahy, Frank J. *Foundations of engineering acoustics*. Elsevier, 2000. HOU, Jingming, et al. Numerical simulation for runoff regulation in rain garden using 2D hydrodynamic model. *Ecological Engineering*, 2020, 153: 105794 APAZHEV, A. K., et al. Environmental engineering approach for ecologization of plant protection systems. In: *IOP Conference Series: Materials Science and Engineering*. IOP .Publishing, 2020. p. 062002.				
Course Assessments	**Theoretical semester tests %**	**Practical semester tests %**	**Quizzes %**	**Final practical test %**	**Final Exam %**
	(25%)	**(10%)**	**(5%)**	**20%**	**(40%)**
General Notes	**Final grade 100%**				

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the week	the date	Topics Covered	Practical Part	Notes
1		Introduction, definition of the science of garden architecture and the history of its creation	Drawing scale	
2		Garden styles throughout history: Chinese, Babylonian, Pharaonic, and Indian	Engineering drawing tools	
3		Modern French, English, Italian garden style.	Methods of measuring geometric shapes	
4		Types of gardens Aquatic rocky bonsai, etc	Learning on a bubble chart	
5		Steps to design and implement gardens:	Learn to take notes from the site	
6		Semester 1st exam	Semester 1st exam	
7		Conditions that must be taken into account when creating gardens	Getting to know AutoCAD	
8		The right tree in the right location	Getting to know the instructions and keyboard in the program	
9		Global rates of green spaces	Drawing geometric shapes in AutoCAD	
10		Types of green spaces, their maintenance and irrigation methods	Drawing a garden to scale using AutoCAD	
11		Annual maintenance schedule and ways to control pests and weeds in gardens	Drawing a garden to scale using AutoCAD	
12		Sustainable development goals City planning Sustainable city planning Green spaces within cities	Drawing home gardens using AutoCAD	
13		Using modern programs to identify and address tree planting problems	Drawing home gardens using SketchUp	
14		Urban heat islands within cities	Training	
15		Semester 2nd exam	Semester 2nd exam	

Teacher's signature
Assist. Prof. Dr. Raad Wheeb Mhmood
15/1/2025

Dean's signature
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025