



Teaching plan for the Second semester form

Course Instructor	Ali Abdulhamza Al-Fanharawi, Ibtehal Aqeel Al-Tae				
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Title	Advanced Ecology.				
Course Coordinator	Second semester.				
Course Objective	<ol style="list-style-type: none"> 1- Student will gain understanding of key theory and concept in modern ecology, including definition, historical development 2- This course aim at reducing the environmental load in industries that are supplies materials and resources taken from environment 3- Student acquire an advanced knowledge to pioneer new environmental friendly processes. 4- Natural History and Geography of Biomes. 				
Course Description	<ol style="list-style-type: none"> 1- Introduction of organization of modern ecology, Pure and applied ecology 2- Important processes in Population ecology. 3- Adaptations to the environment. 4- Algae ecology. 				
Textbook	-				
References	ECOLOGY From Individuals to Ecosystems, BEGON, 2006 Essentials of Ecology, Miller & Spoolman, 2009 Ecology: CONCEPTS AND APPLICATIONS, Molles, 2019				
Course Assessment	Term Tests	Laboratory	Assess	Semester	Final Exam
	(25%)	-	(5%)	Second	(70%)
General Notes					



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W	D	Topics Covered	Lab. Experiment Assignments
1		Definition and scope of ecology, Pure and applied ecology.	
2		Natural resources, Renewable and nonrenewable resource.	
3		Population ecology.	
4		Terrestrial Biomes	
5		Aquatic Biomes	
6		Characteristics of Aquatic Environments.	
7		Discussions	
8		Primary productivity	
9		Biodiversity, important , measuring, loss of biodiversity effect	
10		Human population and environment	
11		Field trip(uses and type)environmental survey	
12		Modern method ,type of teaching strategy	
13		Land scape pattern, conservation of population	
14		Algae ecology	
15			

Instructor Signature:

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Assist. Prof. Dr. Ali Abdulhamza Al-Fanharawi
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