



Jordan University of Science and Technology
Faculty of Agriculture
Natural Resources & Environment Department

NR210 Introduction To Natural Resources Management

Second Semester 2022-2023

Course Catalog

3 Credit Hours. Basic knowledge of biology, geology and chemistry of life on Earth, such as land, chemical and biological cycles, agro-ecosystems, soil, forests, rangeland, wildlife, biodiversity, bio-production, water, energy, atmosphere, climate change, and air pollution. The topics will cover population growth, endurance and sustainability, scientific methods of research and values. (Prerequisite: 202)

Text Book

Title	Environmental science
Author(s)	Botkin D. B. and Keller E. A.
Edition	8th Edition
Short Name	REF 1
Other Information	

Instructor

Name	Prof. Mohammad Alrababah
Office Location	C4L3
Office Hours	
Email	alrababa@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 11:30 - 12:30
Room: C3016

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Basic issues in natural resources and environment	From REF 1
Week 3	System & Change	From REF 1
Week 4	The biogeochemical cycle	From REF 1
Week 5	Biological diversity	From REF 1
Week 6	Biological productivity and energy flow	From REF 1
Week 7	Land resources : Soil	From REF 1
Week 8	Land resources: Minerals	From REF 1
Week 9	Biotic resources: Agriculture farms	From REF 1
Week 10	Biotic resources: Rangeland	From REF 1
Week 11	Biotic resources: Forests	From REF 1
Week 12	Biotic resources: Wildlife and endangered species	From REF 1
Week 13	Abiotic resources: Energy	From REF 1
Week 14	Abiotic resources: Water	From REF 1
Week 15	Abiotic resources: Atmosphere	From REF 1
Week 16	Environmental health and pollution	From REF 1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
The importance of studying natural resources and environment [10PLO3, 5PLO6, 5PLO9]	20%	
The current issues in natural resources and environment [5PLO3, 5PLO6, 5PLO9]	15%	
The current and projected future problems in natural resources [4PLO3, 3PLO6, 3PLO9]	10%	
The connection between various disciplines related to natural resources and environment [1PLO3, 1PLO6, 1PLO9]	10%	
Important terminology and definitions of environmental issues [20PLO3]	20%	
How to discuss, relate and critically think about environment [3PLO4, 2PLO5, 5PLO6, 5PLO9]	15%	
How to search, present and discuss an environmental problem or issue [2PLO3, 2PLO4, 2PLO5, 2PLO6, 2PLO9]	10%	

Relationship to Program Student Outcomes (Out of 100%)								
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
		44.33	5	4	23.33			23.33

Policy	
Attendance	Attendance is Mandatory
Grading	40% mid term exam 50% final exam 10% quizzes and activities
Study material	Lecture slides will be available on e-learning website
Extra work for extra grades	Students are allowed to prepare a presentation with instructor permission for extra grades

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