



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

NR210 Introduction To Natural Resources Management

First 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: Mon, Wed : 08:30 - 09:30
Room: C5020

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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