



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|------------|--|---|---------------------------------|---|------------|---|
| Course Title | | Environmental Education | | | | | | | |
| Course Code | | SBÖ001 | | Course Level | | First Cycle (Bachelor's Degree) | | | |
| ECTS Credit | 4 | Workload | 96 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | To understand basic ecological concepts. To understand the energy flow in nature. To be able to explain common lifestyles. Explain the results of population growth and erosion. To be able to explain the reasons of environmental pollution and conservation efforts. To be able to explain what needs to be done for a sustainable world. | | | | | | | |
| Course Content | | Basic ecological concepts and principles, ecosystems, food chains, food network, habitat, competition; common living and mutual living, continuation of life, land "biomes", energy flow, circulation of matter, population growth, ecological impact, erosion, destruction of forests, urban environments, behavior pollution, environmental pollution, marshes and waste water, responsive people response , environmental decision-making, land and water resources and their management, conservation, culture and primitive life, global view, ecological issues and problems, environmental awareness, studies on environmental awareness in the world, institutions and organizations | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion, Case Study, Project Based Study, Individual Study, Problem Solving | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

Recommended or Required Reading

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| 1 | Özey, R. 2009; Çevre Sorunları, Aktif Yay, İstanbul |
| 2 | Şahin, B.2008;Çevre Bilimi (Çevre İçin Eğitim), MMP Baskı Tesisleri, İstanbul |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Definition of the science of ecology, the historical development of the science of ecology, the subject and sub-branches of the science of ecology, the relationship of ecology with other disciplines, research methods of the science of ecology, the definition and subject of environmental science. Some basic concepts in ecology, environment, habitat, biotope, ecological niche, species, population, biotope, communism, system and ecosystem, biomass, biosphere, fauna, flora, endemic species, cosmopolitan species, ecological relations, some basic laws of ecology, minimum law , tolerance law |
| 2 | Theoretical | Environmental factors, inanimate factors, water, soil, light, temperature, wind, pH, living factors, feeding forms in animals, autotrophic organisms, heterotrophic organisms, both autotrophic and heterotrophic organisms, biological relationships, male-female relations, colonies, groups, clustering , social life in animals, in-house experience, neutralism, predation, parasitism, competition, mutualism or symbiosis, comesalism, amensalism. |
| 3 | Theoretical | Ecosystem, population and characteristics, community and characteristics, sequential change, producers, consumers, separators, food network, ecological pyramids |
| 4 | Theoretical | Functions of ecosystem, energy flow, substance cycle (water, carbon, oxygen, nitrogen, phosphorus, sulfur cycle) biological accumulation, population control. |
| 5 | Theoretical | Large ecosystems and their distribution to the earth, terrestrial ecosystems (tundras, forests, steppes, savanna, deserts), aquatic ecosystems (lakes, rivers, seas), special ecosystems (wetlands, rivers, coral reefs) |
| 6 | Theoretical | Environmental problems, problem of use of natural resources, problem of population growth, problem of urbanization, energy problem, nutrition problem, agricultural problems |
| 7 | Theoretical | Environmental pollution problem (air, water, soil, radioactive, noise and light pollution). |
| 8 | Theoretical | Environmental pollution problem (air, water, soil, radioactive, noise and light pollution) (MIDTERM EXAM) |
| 9 | Theoretical | Solutions to environmental problems, sustainable use of natural resources, population planning, use of renewable energy sources (solar energy, wind energy, geothermal energy, biomass energy) |



| | | |
|----|-------------|---|
| 10 | Theoretical | Prevention of environmental pollution, conservation of biological diversity, protection of natural areas |
| 11 | Theoretical | Prevention of environmental pollution, conservation of biological diversity, protection of natural areas |
| 12 | Theoretical | New approaches in environmental science, sustainable development, environmental law, environmental policy, environmental economics, environmental health, ecological (organic) agriculture, environmental impact assessment. |
| 13 | Theoretical | organizations and agreements related to environment, environment-related institutions in Turkey, relevant international organizations and with the environment, international agreements on the environment, international environmental agreements signed by Turkey. |
| 14 | Theoretical | Environmental education, history of environmental education, importance of environmental education, objectives, objectives and principles of environmental education, formal education (preschool period, |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 2 | 2 | 56 |
| Individual Work | 5 | 2 | 2 | 20 |
| Midterm Examination | 1 | 5 | 5 | 10 |
| Final Examination | 1 | 5 | 5 | 10 |
| Total Workload (Hours) | | | | 96 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|---|
| 1 | Have basic ecological knowledge. |
| 2 | Explain the principles and principles of ecology |
| 3 | Awareness of environmental problems. |
| 4 | Actively participate in the solution of environmental problems. |
| 5 | It describes studies on environmental protection in the world and Turkey. |

Programme Outcomes (Social Studies Teacher Education)

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|----|---|
| 1 | To be able to gain subject knowledge of profession in theory and practice in the learning process. |
| 2 | To be able to make plans related to the subject-matter and gain the competence of using the appropriate approach, strategy, technique for the plans in the learning process. |
| 3 | To be able to gain skills of the teaching profession in the learning process. |
| 4 | To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process. |
| 5 | To be able to comprehend contemporary approaches of education and the philosophies they are based on. |
| 6 | To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter. |
| 7 | To be able to become individuals faithful to the Principles and Revolutions of Atatürk, be modern democratic, secular, protecting and developing one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values |
| 8 | To be able to improve oneself in terms of sport, art and culture. |
| 9 | To be able to become individuals believing in lifelong learning. |
| 10 | To be able to educate individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solution of these problems. |

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

| | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P1 | 4 | | | | 4 |
| P2 | 4 | | | | |
| P3 | | 4 | | | |
| P4 | | 5 | | | |
| P5 | | | | 4 | |
| P6 | | | | | 4 |
| P7 | | 4 | | | |
| P8 | | | 5 | | |



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|-----|--|--|---|---|--|
| P9 | | | | 5 | |
| P10 | | | 5 | | |

