# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

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|---|---|---|---|---|---|---|---|---|---|
| Course Title | Agriculture and Environment | | | | | | | | |
| Course Code | TB110 | | Couse Level | First Cycle (Bachelor's Degree) | | | | | |
| ECTS Credit | 2 | Workload | 50 *(Hours)* | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | In general, it is aimed to determine the environmental effects of field crops production. The different production techniques and some innovative applications that have been applied can be tried to determine of the environmental impacts. | | | | | | | | |
| Course Content | Determination of the production quantities of field crops in Turkey and in the world. Determination of expenses such as fertilizers, pesticides and irrigation water that must be used in their production. Determination of indirect effects (dams, irrigation subdivisions, deterioration of soil structure, erosion, etc.) indirectly (pesticides and fertilizer application, etc.). With innovative agricultural practices to be applied in traditional agricultural systems, how much the effect on the environment can be reduced? | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Demonstration, Case Study | | | | | | | | |
| Name of Lecturer(s) | Assoc. Prof. Yakup Onur KOCA, Lec. Feride ÖNCAN SÜMER | | | | | | | | |

**Assessment Methods and Criteria**

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

**Recommended or Required Reading**

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|---|---|
| 1 | Aydoğdu, M., Gezer, K., 2007. Çevre Bilimi. Anı Yayıncılık. s: 224. |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Principles of agricultural and environmental interaction |
| 2 | Theoretical | Agricultural geography and environment |
| 3 | Theoretical | Agricultural and Environmental Regulations |
| 4 | Theoretical | Environment in EU Integration Process |
| 5 | Theoretical | Global climate change |
| 6 | Theoretical | Greenhouse Gases |
| 7 | Theoretical | The Effect of Carbon Dioxide |
| 8 | Theoretical | Effect of Temperature |
| 9 | Intermediate Exam | Midterm exam |
| 10 | Theoretical | Influence of light |
| 11 | Theoretical | Water shortage |
| 12 | Theoretical | Radioactive pollution |
| 13 | Theoretical | Genetic contamination and agriculture |
| 14 | Theoretical | Environmental problems |
| 15 | Theoretical | Eco-Friendly Farming Techniques |
| 16 | Final Exam | Final Exam |

**Workload Calculation**

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Midterm Examination | 1 | 8 | 2 | 10 |
| Final Examination | 1 | 10 | 2 | 12 |
| | | | Total Workload (Hours) | 50 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 2 |

**25 hour workload is accepted as 1 ECTS*

| Learning Outcomes | |
|---|---|
| 1 | Having knowledge about world and country production projections and interactions about agriculture and environment |
| 2 | Understanding the impact of the environment on agriculture and environmental protection |
| 3 | Interdisciplinary study and analytical thinking about solving problems in agriculture and environment |
| 4 | Using modern techniques in environmentally friendly agriculture |
| 5 | Recognition of global climate change |

| **Programme Outcomes** *(Dairy Technology)* | |
|---|---|
| 1 | Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field. |
| 2 | Determining the modern techniques, tools and information technologies required for applications related with his field and ability to use them efficiently |
| 3 | Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field |
| 4 | Ability to have professional ethic and awareness. |
| 5 | Ability to work, decide, express opinions orally and in written individually |
| 6 | Ability to participate team studies, taking responsibility, making leadership. |
| 7 | Ability to conceive Ataturk’s principles and reforms, to communicate in Turkish and foreign language. |
| 8 | Ability to comprehend the necessity to learn for a life time, to monitor developments in science and technology and continuously renew himself. |
| 9 | Having sufficient level of information about production and quality control of milk and dairy products and also product development, increasing product quality and food security fields. |
| 10 | Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling techniques for this purpose. |
| 11 | To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge about legal results of the engineering applications related with his subject. |

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

| | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P4 | 4 | 4 | 4 | 4 | 4 |
| P8 | 4 | 4 | 4 | 4 | 4 |