



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|------------|---|---|---------------------------------|---|------------|---|
| Course Title | | Agricultural Environment Pollution | | | | | | | |
| Course Code | | BK206 | | Course Level | | First Cycle (Bachelor's Degree) | | | |
| ECTS Credit | 3 | Workload | 75 (Hours) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | It is aimed to teach the distribution of agricultural environmental pollutants through the soil, air, water like pollutant and environmental impacts, to reduce the agricultural pollution and to teach the alternative methods. | | | | | | | |
| Course Content | | Determination of the status of agricultural environmental pollutants. Determination of environmental risks of chemical fertilizers, pesticides, agricultural organic waste, gas emissions, pesticides and GM crops . | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration, Discussion | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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| 1 | Merrington, G. Winder, L. Parkinson, Redman, M. Copping., Agricultural Pollution Environmental Problems and Practical Solutions. |
| 2 | Topbaş, M., Brohi, R.(1998)Çevre Kirliliği. TC Çevre Bakanlığı. Ankara. |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Introduction to agricultural environmental pollution |
| 2 | Theoretical | The effects and pollution caused by chemical fertilizers |
| 3 | Theoretical | The effects and pollution caused by chemical fertilizers |
| 4 | Theoretical | The effects and pollution caused by chemical fertilizers |
| 5 | Theoretical | Farm manure and its environmental impact |
| 6 | Theoretical | Erosion and environmental impacts |
| 7 | Theoretical | Erosion risk assessment |
| 8 | Theoretical | Classification of agricultural organic wastes |
| 9 | Intermediate Exam | Mid-term exam |
| 10 | Theoretical | Agricultural organic wastes and avoid the risks |
| 11 | Theoretical | Gas emissions from agricultural sources |
| 12 | Theoretical | The importance of agricultural pesticides according to the environmental pollution |
| 13 | Theoretical | Risks to the environment and distribution of pesticides |
| 14 | Theoretical | Pesticide pollution prevention |
| 15 | Theoretical | Genetically modified organisms '(GMOs) environmental risks |
| 16 | Final Exam | Final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 1 | 2 | 42 |
| Midterm Examination | 1 | 12 | 1 | 13 |
| Final Examination | 1 | 19 | 1 | 20 |
| Total Workload (Hours) | | | | 75 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 3 |

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

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|---|---|
| 1 | To be able to restate the importance of agricultural environmental pollution |
| 2 | To be able to identify sources of agricultural pollution |
| 3 | To be able to list agricultural environmental pollution prevention methods |
| 4 | To be able to use early warning systems to anticipate the estimated critical pollution points |
| 5 | Monitoring agricultural pollution |

Programme Outcomes (Agricultural Biotechnology)

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|---|--|
| 1 | To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology |
| 2 | To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications |
| 3 | To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems |
| 4 | To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools. |
| 5 | To have the ability to analyze collected data and interpret the results. |
| 6 | To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely |
| 7 | To have the awareness of professional liabilities and ethics |
| 8 | To be able to follow current national and international 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 | 1 | 1 | 1 | 1 | 1 |
| P2 | 2 | 2 | 2 | 2 | 2 |
| P3 | 2 | 2 | 2 | 2 | 2 |
| P4 | 1 | 1 | 1 | 1 | 1 |
| P5 | 2 | 2 | 2 | 2 | 2 |
| P6 | 3 | 3 | 3 | 2 | 2 |
| P7 | 2 | 2 | 2 | 2 | 2 |
| P8 | 2 | 2 | 2 | 2 | 2 |

