



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|---|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title | | Quality Control and Standardization On Agricultural Machines | | | | | | | |
| Course Code | | ZTM602 | | Course Level | | Third Cycle (Doctorate Degree) | | | |
| ECTS Credit | 7 | Workload | 175 (<i>Hours</i>) | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | The purpose of standardization; to increase productivity, improve quality, reduce costs, reduce waste, loss and waste, and facilitate the production of goods and services. This objective also includes; it provides the security of life and property of the consumers, the sale of goods at a cheaper price, and the marketing of easier goods and services. | | | | | | | |
| Course Content | | Standardization, Historical development of standardization and standardization, TSE and standardization, Quality and quality concepts, Quality concept and elements, Total quality management, Total quality control. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Individual Study | | | | | |
| 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 | Standardization and Quality, Orhan Küçük, Seçkin Publishing House, Ankara, 2004. |
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| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Quality concept and history, total quality concept, total quality management system, |
| 2 | Theoretical | Quality Approaches and Quality Groups |
| 3 | Theoretical | Total Quality Culture and important principles |
| 4 | Theoretical | Total Quality Culture and important principles |
| 5 | Theoretical | Team work |
| 6 | Theoretical | Standardization and Importance |
| 7 | Intermediate Exam | midterm exam |
| 8 | Theoretical | International standardization ISO |
| 9 | Theoretical | National standardization TSE |
| 10 | Theoretical | Agricultural Machinery Standards |
| 11 | Theoretical | Statistical Methods Used in Quality Control |
| 12 | Theoretical | Statistical Process Control |
| 13 | Theoretical | Control Diagrams |
| 14 | Final Exam | final exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 5 | 3 | 112 |
| Assignment | 5 | 5 | 5 | 50 |
| Midterm Examination | 1 | 3 | 3 | 6 |
| Final Examination | 1 | 4 | 3 | 7 |
| Total Workload (Hours) | | | | 175 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 7 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|--|
| 1 | Quality concept and history, total quality concept, total quality management system, |
| 2 | Quality Approaches and Quality Groups |



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| 3 | Total Quality Culture and important principles |
| 4 | Agricultural Machinery Standards |
| 5 | Statistical Methods Used in Quality Control |

Programme Outcomes (Agricultural Machinery Doctorate)

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| 1 | Identification, formulation and solving the problems in the field of Agricultural Machinery |
| 2 | The ability to use modern engineering tools and techniques |
| 3 | The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice. |
| 4 | The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals |
| 5 | Professionalism and ethical responsibility |
| 6 | The ability to work in disciplinary and multi-disciplinary teams |
| 7 | The ability to communicate effectively |
| 8 | The ability to do research for accessing information and to use data base and other resources |
| 9 | The ability to do analyze and interpret the experimental results and the design of experiment |
| 10 | The ability to identify and interpret knowledge of current professional issues and events |
| 11 | The ability to get aware the universal and social effects of engineering solutions and applications |
| 12 | Accordance with the requirements of science and technology, ability to use scientific knowledge creative |

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

| | L1 | L3 |
|-----|----|----|
| P1 | 5 | |
| P4 | | 5 |
| P5 | 5 | |
| P6 | | 4 |
| P9 | | 4 |
| P10 | 5 | |

