



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title | | Design Principles of Agricultural Production Storage Systems | | | | | | | |
| Course Code | | ZTY624 | | Course Level | | Third Cycle (Doctorate Degree) | | | |
| ECTS Credit | 6 | Workload | 150 (<i>Hours</i>) | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | To ensure that the students have knowledge and skills about the the planning and construction of warehouses which is used to purpose of agricultural | | | | | | | |
| Course Content | | Properties of stored material, storage conditions, storage volume calculation, selection of building materials and construction of storage. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion, 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 | Balaban A., 1982 Tarımsal Yapılar. Ankara Üniversitesi, Ziraat Fakültesi |
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| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | General Concepts |
| 2 | Theoretical | Animal and vegetable production, storage requirements, |
| 3 | Theoretical | Beef and dairy cattle feed storage requirements |
| 4 | Theoretical | Beef and dairy cattle feed storage requirements |
| 5 | Theoretical | Characteristics of storages which is needed for crop production structures |
| 6 | Theoretical | Dimensions of provender stores required for poultry |
| 7 | Theoretical | Storages planning criteria |
| 8 | Theoretical | Storages planning criteria |
| 9 | Intermediate Exam | MID-TERM EXAM |
| 10 | Theoretical | Planning of premises |
| 11 | Theoretical | The effect of environmental conditions on vproduct storage structures |
| 12 | Theoretical | Designing, Sizing, and static and strength calculations, material selection |
| 13 | Theoretical | Designing, Sizing, and static and strength calculations, material selection |
| 14 | Theoretical | Cost calculations |
| 15 | Theoretical | Cost calculations |
| 16 | Final Exam | FİNAL EXAM |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 6 | 3 | 126 |
| Midterm Examination | 1 | 8 | 2 | 10 |
| Final Examination | 1 | 12 | 2 | 14 |
| Total Workload (Hours) | | | | 150 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 6 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|---|
| 1 | Being able to collect using data for planning and analysing of farms. |
| 2 | Determining the amount of material to be stored, |



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|---|---|
| 3 | Determination of storage conditions to be stored materials |
| 4 | Determination of storage volume and strength calculations of stores |
| 5 | To comprehend and applying legislations about the storage. |

Programme Outcomes (Agricultural Structures and Irrigation Doctorate)

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|---|---|
| 1 | Ability to analyze, synthesize and evaluate different forms of scientific knowledge in the field of studies |
| 2 | Approach to information systematically, and gain skills related to their field the research methods |
| 3 | Innovative science to develop a scientific method or a method that is known to practice in their field |
| 4 | Ability to organize and manage the project and advanced scientific research |
| 5 | Advanced technologies, find solutions to engineering problems taking advantage of the software and model approaches |
| 6 | Creative, unbiased and critical thinking |
| 7 | A topic in the field of written, verbally and visually as the ability to express |
| 8 | Ability to publish in refereed journals National and international the results of studies |

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 | 5 | 5 | 5 | 5 | 5 |
| P2 | 5 | 4 | 5 | 5 | 4 |
| P3 | 4 | 4 | 4 | 5 | 5 |
| P4 | 4 | 4 | 5 | 5 | 5 |
| P5 | 5 | 5 | 4 | 5 | 5 |
| P6 | 3 | 5 | 5 | 4 | 3 |
| P7 | 5 | 5 | 4 | 5 | 5 |
| P8 | 5 | 5 | 5 | 5 | 5 |

