



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|--|------------|---|---|----------------------------------|---|------------|---|
| Course Title | | Surveying | | | | | | | |
| Course Code | | PSB115 | | Course Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 3 | Workload | 73 (Hours) | Theory | 2 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | | The aim of this course is to enable the students to recognize the principles of surveying, to measure the horizontal distance by simple and advanced surveying equipments, to prepare location plans, to calculate the field area, to measure vertical distances, to derive the topographic profiles, and to interpret topographic maps | | | | | | | |
| Course Content | | Definition and significance of the course. Units of measurement, mistakes and errors. Measure the horizontal distance by simple surveying equipments. To remove location plans of small parcels. Scales and scale types. Field measurements of maps and plans. Simple altitude measurement vehicles. Levelling instruments and terms of use. Leveling practices. | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving | | | | | |
| Name of Lecturer(s) | | Ins. Talih GÜRBÜZ | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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| 1 | Balcı, A., Avcı, M. 2002. Ölçme Bilgisi I, Ege Üniversitesi Ziraat Fakültesi Yayını, İzmir |
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| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical & Practice | Course presentation: Scope, Reasons, Rules |
| 2 | Theoretical & Practice | Units of measurement, mistakes and errors |
| 3 | Theoretical & Practice | Measure the horizontal distance by simple surveying equipments, right angles |
| 4 | Theoretical & Practice | Field location plans- dividing triangles, coordinate, polar measurement |
| 5 | Theoretical & Practice | Calculation of field areas by measured values and coordinate values |
| 6 | Theoretical & Practice | Calculation of areas by graphic method |
| 7 | Theoretical & Practice | Calculation of areas by planimeter |
| 8 | Intermediate Exam | MİD TERM EXAM |
| 9 | Theoretical & Practice | Levelling operations and the introduction of levelling |
| 10 | Theoretical & Practice | Types of Point leveling |
| 11 | Theoretical & Practice | Gradual leveling |
| 12 | Theoretical & Practice | Transverse profile leveling |
| 13 | Theoretical & Practice | Longitudinal profile leveling |
| 14 | Theoretical & Practice | Surface levelling |
| 15 | Theoretical & Practice | Principles of GPS |
| 16 | Final Exam | Final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Lecture - Practice | 14 | 0 | 2 | 28 |
| Midterm Examination | 1 | 5 | 1 | 6 |



| | | | | |
|--|---|----|---|----|
| Final Examination | 1 | 10 | 1 | 11 |
| Total Workload (Hours) | | | | 73 |
| [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 measure the length of a route by different instruments |
| 2 | To be able to make a land location plan and calculate the area |
| 3 | To be able to use Leveling tool |
| 4 | To be able to do sectioning and surface leveling |
| 5 | To be able to interpret topographic maps. |

Programme Outcomes (Organic Agriculture)

| | |
|----|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |

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

| | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P7 | 2 | 2 | 2 | 2 | 2 |
| P8 | 3 | 3 | 3 | 3 | 3 |

