AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Surveying I								
Course Code	BSM106		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	4	Workload	98 *(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. Contour lines and preparing of topographic maps.								
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, Lec. Safiye Pınar TUNALI, Lec. Yasin MERCAN								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Balcı, A., Avcı, M. 2002. Ölçme Bilgisi I, Ege Üniversitesi Ziraat Fakültesi Yayını, İzmir

Week	Weekly Detailed Course Contents	
1	Theoretical	Course presentation: Scope, Reasons, Rules
2	Theoretical	Units of measurement, mistakes and errors
3	Theoretical	measure the horizontal distance by simple surveying equipments, right angles
4	Theoretical	Field location plans- dividing triangles, coordinate, polar measurement
5	Theoretical	Calculation of field areas by measured values and coordinate values
6	Theoretical	Calculation of areas by planimeter
7	Theoretical	Levelling ensruments
8	Theoretical	Levelling ensruments
9	Theoretical	Profile leveling
10	Theoretical	Profile leveling
11	Theoretical	Surface leveling
12	Theoretical	Drawing of contour curves
13	Theoretical	Interpreting of topographical maps
14	Theoretical	Principles of GPS
15	Theoretical	Principles of GPS
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	1	2	42
Midterm Examination	1	6	1	7

Final Examination	1	6	1	7
			Total Workload (Hours)	98
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	measuring the length of a route by different instruments
2	making a land location plan and calculate the area
3	leveling usage
4	Sectioning and surface leveling ability
5	Interpreting topographic maps

Programme Outcomes *(Horticulture)*	
1	Ability to examine agricultural problems under the light of basic science, mathematics, and agriculture knowledge
2	Ability to plan and apply in different agricultural systems in horticultural crop plants
3	To constitute and realize breeding programmesaccording to market demands
4	Ability to propagate any kinds of stock materials in horticultural crop plants
5	Ability ot transfer of modern technologies to production
6	Ability to have a consciousness of quality in production, storage, and evaluation in horticultural crop plants (To measure, evaluate, and manage different quality parameters)
7	To think analytically of protecting, providing transfer to future, and having responsibility to environment of all plant materials belong to horticultural crop plants area
8	Ability to search, think analytically, reach to knowledge, and obtain solution for solving of agricultural problems (Project, homework, thesis, summer training)
9	Ability to be aware of agricultural problems, to follow them, and to communicate own ideas of these subjects by verbal and written ways (Turkish, social course)
10	To be able to perform in a teamwork
11	Ability to work independently, give decision, and Express own thoughts by occupational-ethic values verbal and written ways in horticultural crop plants
12	Ability to think creatively, innovatively, and analytically, to comprehend the need of lifelong learning, be a part of a related subjects in a web of communication, and to develop by social means

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	4	4	4	4
P2	5	4	4	4	4
P5	5	4	4	4	4