



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Computer Application in Land Consolidation							
Course Code		BSM417		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	5	Workload	125 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to enable the students to understand the importance and necessity of land consolidation technology, to understand the steps necessary to prepare the consolidation plans and to design the consolidation project.							
Course Content		Importance and necessity of using technology in land consolidation, land consolidation methods and principles, preparation of consolidation plan							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

### Prerequisites & Co-requisites

Prerequisite	BSM308
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### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Arıcı İ ve Akkaya Aslan ŞT, 2010. Arazi Toplulaştırması Planlama ve Projelemesi, Uludağ Üniversitesi Ziraat Fakültesi, Ders Notları: 105, Bursa.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Course description: Content, Importance, Rules
2	Theoretical	Package Programs Used in Land Consolidation Projects (NetCAD)
3	Theoretical	Package Programs Used in Land Consolidation Projects (LiTop)
4	Theoretical	Package Programs Used in Land Consolidation Projects (InterGIS)
5	Theoretical	Supply of Map Information
6	Theoretical	Creating Property Database
7	Theoretical	Creating a Digital Database
8	Intermediate Exam	Mid Term Exam
9	Theoretical	Marking the Consolidation Area Boundary
10	Theoretical	Determination of use of the land
11	Theoretical	Creating blocks
12	Theoretical	Creating the Graduation Map
13	Theoretical	Farmers Preferences
14	Theoretical	Preparation of Distribution Plans
15	Theoretical	Use of GIS in Land Consolidation Study
16	Theoretical	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	20	1	21



Final Examination	1	19	1	20
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = <b>ECTS</b>				5
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To identify and describe the importance and necessity of land consolidation in agriculture
2	Interpret the cadastral data and land classes
3	To choose the new land distribution plan preparation methods
4	To be able to generate a consolidation plan by using new technologies
5	To comprehend the process of preparing a consolidation project as a whole

