

COMPUTER AIDED DESIGN

1	Course Title:	COMPUTER AIDED DESIGN
2	Course Code:	BSM2506
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. FERHAT KURTULMUŞ
15	Course Lecturers:	Prof. Dr. KEMAL SULHİ GÜNDOĞDU
16	Contact information of the Course Coordinator:	
17	Website:	
18	Objective of the Course:	The aim of the course is to give the students the ability to use computer aided design programs to solve the mechanical and structural design problems they encounter in their fields.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	to able to use Autocad and Solidworks software at basic level.
	2	Recognizes basic drawing and solid modeling tools and methods.
	3	to able to design complex objects starting from simple geometric references
	4	to able to model agricultural machine components and elements of agricultural structures in computer environment
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	In first lesson, the aim of the course, how the lesson to be conducted, exam method, expected duty from students will be explained.	Information will be provided to install the AutoCAD program on students' computers.

2	By entering AutoCAD program, basic drawing elements will be introduced.Extension of lines, intersection, point capture mode will be introduced.	The relevant application will be made.		
3	Creation of circular objects, sizing and labeling of created objects	The relevant application will be made.		
4	Introducing surfaces and user-defined coordinate system in three-dimensional work	The relevant application will be made.		
5	Creation of simple three-dimensional objects	The relevant application will be made.		
6	Teaching of the differences of of three dimensional surface and solid objects	The relevant application will be made.		
7	Creation of three-dimensional complex objects	The relevant application will be made.		
8	Introducing Solidworks software, basic working environment and tools	Information will be provided to install Solidworks on students' computers.		
9	Basic geometric drawings	Two dimensional sketch concept and reference planes		
10	Creation of complex two-dimensional drawings	The relevant application will be made.		
11	Advanced mate relationships in two-dimensional drawings	The relevant application will be made.		
12	Techniques and reference geometry used to	The relevant application will be made.		
Activites		Number	Duration (hour)	Total Work Load (hour)
14	Theoretical Solid models of some mechanisms and	14	1.00	14.00
Practicals/Labs		14	2.00	28.00
22	Self study and preparation Textbooks, References and/or Other	1	0.00	0.00
Homeworks		1	40.00	40.00
Projects		2	0.00	0.00
Field Studies		0	0.00	0.00
23	Assesment Midterm exams	1	20.00	20.00
Others		0	0.00	0.00
Final Exam		1	16.00	16.00
Total Work Load				118.00
Total work load/ 30 hr		1	20.00	3.93
Home work project				
ECTS Credit of the Course				4.00
Total		3	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				
24	ECTS / WORK LOAD TABLE			

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			