

#### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Cad/cam Applications in the Design of Agricultural Machines						
Course Code	ZTM529	Couse	Level	Second Cycle (Master's Degree)			
ECTS Credit 8	Workload 200	(Hours) Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The use of pre-packaged software for the design, AutoLISP language function in this program is the preparation and use of these functions, agricultural machine, the creation of the data requirements for computer-aided manufacturing equipment designed tool.						
Course Content	The use of pre-packaged programs, equipment necessary for CAD, CAM stages of the programming language LISP.						
Work Placement N/A							
Planned Learning Activities and Teaching Methods		ods Explan Solving	ation (Presentat	tion), Demonst	ration, Individu	ual Study, Proble	em
Name of Lecturer(s) Lec. Nurettin TOPUZ		JZ					

## Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

## **Recommended or Required Reading**

1	AutoCAD 2005 ve AutoCADLT 2005, George Omura, ISBN:975-297-565-8
2	AutoCADProf.Dr.Muammer Nalbant, ISBN:975-295-272-0
3	Bilgisayar Destekli Kulaklı Pulluk Aktif Yüzey Tasarımı, Tuna Doğan, Yayımlanmamış doktora tezi
4	CNC Parça Programlama, David Gibbs, Milli Eğitim Bakanlığı, ISBN:975-11-0865-

Week	Weekly Detailed Cours	iled Course Contents			
1	Theoretical	Additional equipment required for the introduction and use of computers and CAD that in order to the make the design of the agricultural machinery			
2	Theoretical	The introduction of the software, working on the samples.			
3	Theoretical	AutoCAD Lisp programming language teaching in order to prepare under the function.			
4	Theoretical	AutoCAD Lisp programming language teaching in order to prepare under the function.			
5	Theoretical	Preparation of functions and applications for the design of agricultural machinery.			
6	Theoretical	Preparation of functions and applications for the design of agricultural machinery.			
7	Intermediate Exam	Midterm exam			
8	Theoretical	Disk design with Lisp programming language. Tine harrow design with Lisp programming language.			
9	Theoretical	Duckfoot share design with Lisp programming language.			
10	Theoretical	Frame design with Lisp programming language.			
11	Theoretical	Trailer design with Lisp programming language.			
12	Theoretical	Stages of CAM for Manufacturing			
13	Theoretical	Stages of CAM for Manufacturing			
14	Theoretical	The introduction of the software, working on the samples.			
15	Theoretical	The introduction of the software, working on the samples.			
16	Final Exam	The introduction of the software, working on the samples.			

## **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	2	2	56
Assignment	2	20	20	80
Midterm Examination	1	2	2	4



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Final Examination	1		2	2	4
Total Workload (Hours)				200	
[Total Workload (Hours) / 25*] = <b>ECTS</b> 8				8	
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes	
1	Identify and understanding the necessary equipment for CAD	Э.
2	Preparing and understanding the use of AutoLISP function.	
3	Understand the stages of CAM.	
4	Part to be informed about the design of computer-aided desig	gn.
5	Part to be informed about the design of computer-aided desig	gn.
5	Part to be informed about the design of computer-aided desig	gn.

#### Programme Outcomes (Agricultural Machinery Master)

1	Identification, formulation and solving the problems in the field of Agricultural Machinery
2	The ability to use modern engineering tools and techniques
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals
5	Professionalism and ethical responsibility
6	The ability to work in disciplinary and multi-disciplinary teams
7	The ability to communicate effectively
8	The ability to do research for accessing information and to use data base and other resources
9	The ability to do analyze and interpret the experimental results and the design of experiment
10	The ability to identify and interpret knowledge of current professional issues and events
11	The ability to get aware the universal and social effects of engineering solutions and applications
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative

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

	L1	L2	L3	L4
P1	4	4	4	4
P2	5	5	5	5
P3	5	5	5	5
P4	3	5	3	3
P5	4	4	4	4
P6	5	5	5	5
P7	4	4	4	4
P8	4	5	5	5
P9	4	5	5	5
P10	2	3	4	3
P11	5	5	5	5
P12	4	5	5	5