AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Computer Aided Design II								
Course Code	TAM227		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Gaining the competences of three-dimensional drawing and assembling with computer-aided is aimed by this lesson.								
Course Content	Draft drawing and editing, three-dimensional drafting, creation of solid models, surface modelling,three-dimensional assembly, obtaning technical drawings from solid models, creation of construction drawings from solid models, animation and prepare a presentation.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Referance book, SolidWorks 2011 (Sevilay TURGUT, Mustafa TURGUT)
2	Referance book, SolidWorks & SolidCam 2011 (Ali Naci BIÇAKCI, Mustafa ERKMEN)

Week	Weekly Detailed Course Contents	
1	Theoretical	Knowing program interface and options. Using file, edit, and view menu tools.
2	Theoretical	Using refarence geometry, sketch, and relations tools.
3	Theoretical	Creating solid parts with sketch and features.
4	Theoretical	Creating solid parts using sketch and features tools.
5	Theoretical	Creating complex face by surface and solid modeling tools.
6	Theoretical	Creating complex face by surface modeling tools.
7	Theoretical	Structural members and design, weldment,
8	Intermediate Exam	Midterm Exam
9	Theoretical	Creating sheet metal parts and pattern. Sheet metal die design.
11	Theoretical	Part pattern, using toolbox and toolbox browser.
12	Theoretical	Collapsed and exploded views, Animations, visualization.
13	Theoretical	Drafting and assembly drawing.
14	Theoretical	Simulations of solid parts and assembly.
15	Theoretical	
16	Theoretical	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	4	4	0	16
Laboratory	10	2	0	20
Midterm Examination	1	3	1	4
Final Examination	1	3	1	4
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to make three dimensional Computer aided design and assemble.

Programme Outcomes *(Agricultural Machinery)*	
1	To be able to comprehend social, cultural and societal responsibility and keep up with national and international up contemporary issues and developments.
2	To be able to be bounded to the Atatürk nationalism, adopted to the national, ethic, spiritual and cultural value of the Turkish Nation, opened to the universal and modern development, adopted the richness, deep seated and productive properties of the Turkish language, having language sympathy and awareness, having reading pleasure and habit and having sufficient foreign language for their vocational necessities, In the directions of the Atatürk Principles and Revolutions,
3	To be able to recognize the basic computer hardware and operating systems , knowledge of internet usage being able to prepare documents, electronic tables and presentation by using office programs.
4	To be able to be aware of ethic responsibility and vocational profession and to have consciousness of a lifelong learning concept
5	To be able to know current vocational issues and to have skill to define and interprete them.
6	To be able to be aware of the universal and social dimensional effects in engineering solutions, and to be able to have knowledge about entrepreneurship and newfangleness.
7	To recognize the materials which used for preparation of agricultural machinery and have skill for the choosing the appropriate material.
8	To be able to acquire the skill of using the necessary tools and equipments which are used in the production and maintenance of agricultural machinery.
9	To be able to prepare the agricultural tools and machineries, to determine the breakdowns and to do periodic maintenance and repairs.
10	To be able to comprehend the picture of the agricultural tools and machinery and their fabrication , and have the skill to draw them via computer.
11	To be aable to assemble and to combine machinery pieces by using demountable and nondetachable junction methods.
12	To be able to have the skill of resistance calculations of the agricultural tool and machinery on computer.
13	To be able to test and control the suitability of new machines and mechanic equipment to the definite standarts and technical properties.
14	To be able to have general knowledge of agricultural production.
15	To be able to have knowledge of basic sciences.

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

	L1
P3	1
P4	2
P6	2
P7	2
P9	1
P10	5
P11	4
P12	5
P13	4
P15	1