AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	System Analysis and Design								
Course Code	MKE193		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	It is aimed to acquire the competencies of preparing projects by using the acquired theoretical knowledge, workshop and industry experiences, using the acquired knowledge and skills, producing the prepared projects by using workshop and school facilities, scanning the sources in research and design projects and preparing and presenting projects by using the obtained information.								
Course Content	Feasibility study, Realization of the project, Transformation of the project, Presentation of the project								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Project Based Study, Individual Study								
Name of Lecturer(s)	Ins. Alpaslan BAŞARIK								

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

Recommended or Required Reading	
1	Sistem Analizi ve Tasarımı ders notları

Week	Weekly Detailed Course Contents	
1	Theoretical	Feasibility study
2	Theoretical	Feasibility study
3	Theoretical	Feasibility study
4	Theoretical	Feasibility study
5	Theoretical	Feasibility study
6	Theoretical	Realization of the project
7	Theoretical	Realization of the project
8	Theoretical	Realization of the project
9	Intermediate Exam	Midterm
10	Theoretical	Realization of the project
11	Theoretical	Realization of the project
12	Theoretical	Realization of the project
13	Theoretical	Reporting of the project
14	Theoretical	Presentation of the project
15	Theoretical	Presentation of the project
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Project	15	0	1	15
Report	1	0	5	5
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to make feasibility studies
2	To determine the feasibility of the project
3	To be able to choose the appropriate manufacturing method
4	Performing the project
5	To be able to present the project

Programme Outcomes *(Machinery)*	
1	To be able to know general properties and usage areas of industrial materials and make selection.
2	Design of machine elements.
3	To be able to make production using machining and welding machines without machining.
4	To be able to make measurement and quality control processes with machine tools for measuring and control equipment.
5	To be able to make necessary corrections in order to determine the mistakes by using the necessary non-destructive test methods in welded parts and to eliminate these mistakes.
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.
7	They can make drawings of work pieces on CAD station and apply them on CNC looms. Ability to operate and use CAD / CAM and AUTOCAD package programs.
8	To be able to transfer engineering science and technology to practice by making calculations in the direction of scientific principles.
9	It can repair the elements in pneumatic and hydraulic systems which are indispensable elements of automatic control systems and can regulate their work.
10	The student who is trained as a machine technician during the whole program knows that industrial task definition in the field of work is error finding, problem solving, decision making, planning of functions and activities and they can be achieved by aiming to acquire these characteristics.

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	5		5	
P2	3	5		5	
P3	2	5		5	
P4	5	5		5	
P5	3	4		5	
P6	2	4		5	
P7	4	4		5	
P8	2	5		5	
P9	3	5		5	
P10	2	5	3	5	3