

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		System Analysis and Desigr		n					
Course Code		OTT209		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 2		Workload	50 (Hours)	Theory	1	Practice	1	Laboratory	0
Objectives of the Course		In this course; The aim of this course is to gain knowledge and skills for designing, implementing and presenting an application project.							
Course Content		Selecting the s functions and Variables Preparing the Defining the M Designed, Des Presenting Sy	subject of the Selecting the Schema, Mał lechanisms in sign Elements stem / Produc	study, pres e Required king the Cal the Syster or Mechar t Outputs in	enting the i Materials, S culations o n, Determir nisms, Syst n Report.	information obt Selecting the R f the System, F hing the Manufi em / Product Ir	ained as a re equired Mate Reevaluating acturing Meth nstallation, S	esult of the researc erials, System Flow the Data Available nods of the Project ystem / Product Te	h, system v e, Selected esting,
Work Placement		N/A							
Planned Learning Activities		and Teaching	Vethods	Explanation Study	on (Present	ation), Discuss	ion, Project I	Based Study, Indiv	idual
Name of Lectu	urer(s)	Ins. Mehmet T	EMEL						
Assessment	Methods and	Criteria							

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

Recommended or Required Reading

1 Research Methods and Techniques

Week	Weekly Detailed Course Contents					
1	Theoretical	Selecting the Subject of Study				
2	Theoretical	Presenting the information obtained as a result of the research				
3	Theoretical	Defining System Functions and Variables				
4	Theoretical	Selecting Required Materials				
5	Theoretical	Selecting Required Materials				
6	Theoretical	Preparing the System Flow Chart				
7	Theoretical	Calculating the System				
8	Theoretical	Reevaluating the Data Available				
9	Intermediate Exam	Midterm				
10	Theoretical	Determining the Manufacturing Methods of the Project				
11	Theoretical	Designing the Elements or Mechanisms of the System				
12	Theoretical	Installing System / Product				
13	Theoretical	Testing the System / Product				
14	Theoretical	Presenting System / Product Outputs in Report				
15	Theoretical	Defining the Mechanisms in the Selected System				
16	Final Exam	Semester final exam				



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	1	14
Assignment	4	0	2	8
Laboratory	8	0	1	8
Midterm Examination	1	2	1	3
Final Examination	1	2	1	3
	50			
	2			

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Determine the purpose and scope of the system / product	
2	To make detailed research about system / product subject	
3	Calculation / software related to system / product	
4	Realize system / product	
5	To present the outputs of the system / product	

Programme Outcomes (Automotive Technology)

1	To be able to interpret and evaluate data, identify problems, analyze them, and develop evidence-based solutions by using basic knowledge and skills in the field.
2	Must be able to choose and effectively use the modern techniques, tools and information technologies necessary for field related applications.
3	Must be able to gain practical skills by examining relevant processes in industry and service sector on site.
4	They must be able to produce solutions, take responsibility for teams or do individual work when they encounter situations unforeseen in the field related applications.
5	Awareness of the need for lifelong learning; it must be able to follow the developments in science and technology and to constantly renew itself.
6	Must be able to use computer software and hardware at the basic level required by the field
7	Must have job security, worker health, environmental protection knowledge and quality awareness.
8	He must possess a level of foreign language knowledge that is capable of following the innovations in his area of expertise and communication techniques.
9	Must be able to acquire basic theoretical and practical knowledge about the field in mathematics, science and basic engineering.
10	It should have the ability to plan the processes / processes of the Automotive Program to meet the expectations of the sector.
11	To be able to design the systems and components related to the field by using technical drawing, computer aided drawing, designing using simulation programs and using various softwares, to be able to make basic sizing calculations, to be able to master professional plans and projects.

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	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	2	2	2	2	2
P6	5	5	5	5	5
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	5	5	5	5	5
P11	5	5	5	5	5

