

VEHICLE DESIGN I

1	Course Title:	VEHICLE DESIGN I	
2	Course Code:	OTO3001	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	5	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. FERRUH ÖZTÜRK	
15	Course Lecturers:	Prof. Dr. NECMETTIN KAYA Doç.Dr. GÖKHAN SEVİLGİN	
16	Contact information of the Course Coordinator:	Prof.Dr. Ferruh Öztürk ferruh@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	This course aims to provide an introduction to automotive design and manufacturing	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Demonstrate knowledge and understanding of vehicle design
		2	Explain the basic principles of vehicle systems and parts
		3	Explain the basic issues due to vehicle design techniques
		4	Demonstrate knowledge and understanding of vehicle manufacturing
		5	Explain the basic issues due to vehicle manufacturing techniques
		6	
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		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Vehicle design process		
2	Computer aided vehicle design process		
3	Vehicle manufacturing process		
4	Computer aided vehicle manufacturing process		

5	Vehicle systems and parts	
6	Vehicle systems and parts	
7	Computer aided vehicle design and modelling	
8	Computer aided vehicle design and modelling	
9	Computer aided vehicle design and modelling	
10	Computer aided vehicle design and modelling	
11	Computer aided vehicle manufacturing applications	
12	Computer aided vehicle manufacturing applications	
13	Computer aided vehicle manufacturing applications	
14	Vehicle design project	
22	Textbooks, References and/or Other Materials:	Lecture notes
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
		WEIGHT
Midterm Exam		1
Quiz		0
Home work-project		1
Final Exam		1
Total		3
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	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks	1	38.00	38.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	5	5	0	0	0	0	0	0	5	0	0	0	0	0
ÖK2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	5	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
ÖK5	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				