REVERSE ENGINEERING									
1	Course Title:	REVERS	SE ENGINEERING						
2	Course Code:	OTO403	9						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	ele						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	ABDİL KUŞ						
15	Course Lecturers:	Fakülte \	Yönetim Kurullarının görevlendirdiği öğretim elemanları.						
16	Contact information of the Course Coordinator:	Bursa Ul Tel: 2942	Abdil KUŞ udağ Üniversitesi, Otomotiv Müh. 2344 @uludag.edu.tr						
17	Website:								
18	Objective of the Course:	Informing students about the use of Reverse Engineering systems and tools in the automotive field							
19	Contribution of the Course to Professional Development:	analyzing	significant experience and knowledge in this field by g the use of Reverse Engineering systems in product nd development and their contributions with projects.						
20	Learning Outcomes:								
		1	Learning the concept and tools of Reverse Engineering						
		2	Learning Reverse Engineering tools in the product design process cycle						
		3	Learning modeling processes through scanning and point cloud						
		4	Learning additive manufacturing and production methods						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
\A.	Th (' 1	Co	purse Content:						
	Theoretical		Practice						
1	3D optical and Laser scanning system								
2	Point cloud and polygon structure an parameters								
3	Adjustments on 3D point cloud and F Modeling techniques	olygon							

4	Polygon editing and optimization																	
5	Solid modeling techniques																	
6	Surface modeling techniques																	
7	Future based modelling						_											
8	Boundary fit modelling																	
9	Regions and Alignment						_											
10	Referance geometries																	
11	Wizard based modelling																	
12	Additive Manufacturing technolohies																	
13	Dimensional analysis and data transfer																	
14	Prototype production and production methods																	
22	Textbooks, References and/or Other Materials:							F 2 F 3	1) Wego Wang, Reverse Engineering, Technology of Reinvention Copyright Year 2010. 2) 3D Syatems, eBook, Drive Product Innovation with Reverse Engineering, May, 2020. 3)https://www.3dsystems.com/material-finder?refinementList%5Bmaterial_type%5D%5B0%5D=Dental 4) https://www.youtube.com/watch?v=7Vp6A0FHNL0									
23	Asses	me	nt															
TERM L	LEARNING ACTIVITIES NUMBE							:  v	WEIGHT									
Midterm	n Exam	)						1	2	25.00								
Activit	Activites							Number				Dura	Duration (hour)			Total Work Load (hour)		
Theoret	tical							6	1	14			3.00	3.00			42.00	
	cticals/Labs											0.00	0.00			0.00		
Selfcsts	cstsdyGaadepreperation								0			0.00	0.00			0.00		
Homew	eworks								4			10.00	10.00			40.00		
Projects	cts							1	100.00			10.00	10.00			40.00		
Field St	Studies								0			0.00				0.00		
Violtere	en exams								1			2.00				2.00		
Others	S								0			0.00				0.00		
Final Ex	xams									1			2.00	2.00			2.00	
Total W	ork Lo	ad															126.00	
Total w										L							4.20	
ECTS (	Credit of the Course												4.00					
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
								PQ7		8 F	PQ9	PQ1 0	PQ11		PQ1 3	PQ14	PQ15	PQ16
ÖK1	2		3	0	0	0	0	0	0		0	0	0	0	0	0	0	0
ÖK2	0		2	4	0	0	0	0	0		0	0	0	0	0	0	0	0
ÖK3	0		0	3	4	0	0	0	0		0	0	0	0	0	0	0	0
ÖK4	0		0	4	3	0	0	0	0	1	0	0	0	0	0	0	0	0
			L	O: L	.earr	ning C	bje	ctives	5	PC	Q: P	rogra	ım Qu	alifica	tions	·	•	•

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					