REVERSE ENGINEERING								
1	Course Title:	REVERS	SE ENGINEERING					
2	Course Code:	OTO4039						
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 elemanla						
16	Contact information of the Course Coordinator:	Bursa Ul Tel: 2942	Abdil KUŞ udağ Üniversitesi, Otomotiv Müh. 2344 @uludag.edu.tr					
17	Website:	, and the second						
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:	analyzin	significant experience and knowledge in this field by g the use of Reverse Engineering systems in product and 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						
		8						
		9						
		10						
21	Course Content:							
107	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						

	. .																
	Polygon		_	•													
	Solid modeling techniques																
	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							s									
	Textbooks, References and/or Other Materials:							R 2 R 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	Assesm	ent															
TERM L	LEARNING ACTIVITIES NUMBE							: W	/EIGHT								
Midterm	Exam						1	2	5.00								
Activite	Activites								Number Duration (hour) Total \ Load (
Theoret Total	ical						6	1	100.00			3.00	3.00			42.00	
	ticals/Labs								0			0.00	0.00			0.00	
Selfcsts	cstsslyCaadepreperation								0			0.00	0.00			0.00	
Homew									4			10.00	10.00			40.00	
Projects	DTS .								100.00			10.00	10.00			40.00	
Field St									0			0.00	0.00			0.00	
Meditere	en exams								1			2.00	2.00			2.00	
Others	·								0			0.00	0.00			0.00	
Final Ex	xams								1			2.00	2.00			2.00	
Total W	ork Loa	b														126.00	
Total wo	vork load/ 30 hr												4.20				
ECTS C	redit of	the Co	urse												4.00		
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
		PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 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	
ÖK2	0	2	4	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	0	0	0	0	0	0	0	0	
			LO: L	_earr	ning C	Obje	ctives	3	PQ: F	rogra	am Qu	alifica	tions	5			

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