

REVERSE ENGINEERING IN ADDITIVE MANUFACTURING

1	Course Title:	REVERSE ENGINEERING IN ADDITIVE MANUFACTURING	
2	Course Code:	EIM5006	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
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:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. ABDİL KUŞ	
15	Course Lecturers:	Fakülte Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Prof. Dr. Abdil KUŞ Bursa Uludağ Üniversitesi, Otomotiv Müh. Tel: 2942344 abdilkus@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Informing students about the use of Reverse Engineering systems and tools in the Additive Manufacturing field	
19	Contribution of the Course to Professional Development:	To gain significant experience and knowledge in this field by analyzing the processes of using Reverse Engineering systems in product design and development and obtaining the necessary data for Additive Manufacturing 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 scanning and point cloud, polygon structures and learning optimization, modeling processes, topology optimization and lattice structures
		4	Learning optimum part productions with Additive Manufacturing technologies by using the models obtained by Reverse Engineering processes.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	3D optical and Laser scanning systems		

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