INOVATION IN AUTOMOTIVE INDUSTRY

1	Course Title:	INOVATION IN AUTOMOTIVE INDUSTRY	
2	Course Code:	OTO4110	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	8	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
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. GÖKHAN SEVİLGEN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Prof.Dr. Ferruh Öztürk Bursa Uludağ Üniversitesi Mühendislik Fakültesi Otomotiv Mühendisliği Bölümü Görükle Kampusu Bursa 16059	
17	Website:		
18	Objective of the Course:	This course aims to provide knowledge and understanding of innovation It is designed to enable the students to have knowledge and understanding of innovation in automotive industry.	
19	Contribution of the Course to Professional Development:	Contribution of the course to professional development is about to have the knowledge and understanding of innovation in automotive industry.	
20	Learning Outcomes:		
		1	Demonstrate knowledge and understanding of innovation
		2	Demonstrate knowledge and understanding of innovation context and applications for automotive products and systems in automotive industry
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction to innovation	
2	Innovation and technology	

3	Problem solving techniques	
4	Design process, stages, innovative design	
5	Manufacturing process and enhancements	
6	Sustainability in automotive industry	
7	Innovation techniques	
8	Innovation techniques	
9	R&D in automotive industry	
10	R&D in automotive industry	
11	Innovation cases in automotive industry	
12	Innovation cases in automotive industry	
13	Innovation cases in automotive industry	
14	Project presentation	

22	Textbooks, References and/or Other Materials:	Lecture notes
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	20.00
Quiz	0	0.00
Home work-project	1	20.00
Final Exam	1	60.00
Total	3	100.00
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		Midterm exam, Final exam, Homework

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	1	10.00	10.00
Projects	1	14.00	14.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

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	0	2	2	0	0	2	0	3	2	2	0	0	0	0
ÖK2	2	2	2	3	3	0	0	0	0	3	2	2	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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