R&D AND INNOVATION IN ENGINEERING									
1	Course Title:	R&D AN	D INNOVATION IN ENGINEERING						
2	Course Code:	MAK302	9						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	2							
6	Semester:	3							
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 f	face						
14	Course Coordinator:	Prof. Dr.	ALİ RIZA YILDIZ						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Prof. Dr. Tel:0224 aliriza@u	Ali Rıza Yıldız -2941950 uludag.edu.tr						
17	Website:								
18	Objective of the Course:	Within the scope of this course, basic topics such as R&D, invention, innovation and technological invention are covered. In addition to these basic concepts, the differences between the concepts, types and degrees of innovation, new paradigms and socio-economic effects are examined.							
19	Contribution of the Course to Professional Development:	They will have the skills to create and manage an R&D project In their professional life.							
20	Learning Outcomes:								
		1	Correct understanding of R&D and innovation definitions and processes						
		2	Learning and applying open and closed innovation methods						
		3	Having the ability to create R&D projects and manage innovation projects						
		4							
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:	-							
		Co	burse Content:						
Week	I neoretical		Practice						
1									
2	Basic concepts in innovation								

3	Innovation performance indicators																	
4	R&D) perf	forma	nce in	dicato	rs												
5	Hybı	rid Ra	&D ar	id inno	ovatio	n indica	ators											
6	R&D) and	l inno\	vation	syste	ms												
7	R&D strategy and planning methods																	
8	Regional innovation systems																	
9	Science, technology and innovation investments and evaluation methods																	
10	Science, technology and innovation investments and evaluation methods																	
11	Definitions and basic concepts used in R&D evaluation and impact analysis																	
12	National and international R&D systems and policies																	
13	National and international R&D systems and policies.																	
14	4 National and international R&D systems and policies.																	
22	Text	book	s. Re	ferenc	es an	d/or Ot	ther		S	Isanne	. D. S	erdal T	&amr	: Aise	nbera I	F. H. (Ed	s.).	
	Materials:						(2	(2018). Open Innovation and Knowledge Management										
							In So	in Small and Medium Enterprises (Vol. 3). World										
23	Asse	esme	ent															
Activites					Í	Number			Dura	Duration (hour)			Total Work					
													Load (hour)					
										00								
Theore	tical	oroio	et.				0						2.00	2.00			28.00	
Practica	Practicals/Labs							0			0.00			0.00				
Self study and preperation											0.00							
Homew	Homeworks						-14	0			0.00	0.00			0.00			
Succes	Access Grade							-000			0.00	0.00			0.00			
Field St	Studies							0			0.00	0.00			0.00			
Midtern	Start Starts						10	1			28.00	28.00			28.00			
Others	S										0.00	0.00			0.00			
Einal E Course	Lexams se							Relative assessment will			28.00	28.00			28.00			
Total W	I Work Load													112.00				
Total w	il work load/ 30 hr													2.80				
ECTS (ECTS Credit of the Course													3.00				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
			DOD	DO2		DOF	DOC		DOG			DO14	P O12	DO4	DO44	DO15	DO16	
		- 1	FQZ	FQJ	FQ4	FQS	FQO		FQC		0	PUII	FQIZ	3		FQ15	FQIO	
ÖK1	4	4	4	3	4	4	4	5	5	4	3	3	4	4	4	0	0	
ÖK2	4	4	3	4	4	4	4	4	4	3	3	3	4	4	4	0	0	
ÖK3	;	3	4	4	4	4	4	4	3	4	0	4	4	4	4	0	0	
			l	0: L	earr	ning C	bjec	tives	5 I	PQ: P	rogra	im Qu	alifica	tions	5		•	

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