

# POLYMER COMPOSITE MATERIALS

1	Course Title:	POLYMER COMPOSITE MATERIALS	
2	Course Code:	KIM4039	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	7	
7	ECTS Credits Allocated:	5.00	
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. ALİ KARA	
15	Course Lecturers:	Prof. Dr. Ali KARA	
16	Contact information of the Course Coordinator:	akara@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	POLYMER COMPOSITE MATERIALS	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Learning the properties of polymer and polymeric composite materials
		2	Learning basic knowledge about design of polymeric composite materials
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Polymer properties and polymerization mechanisms		
2	History of polymeric composites		
3	Classification of polymeric composite materials		
4	Areas for polymeric composite material uses		
5	Thermal and mechanical behaviour of polymeric composite materials		

6	Reinforcing elements in polymeric composites	
7	I. Mid-term exam	
8	Matrix materials in polymeric composites	
9	Production techniques of polymeric composites	
10	Production techniques of polymeric composites	
11	Design of polymeric composite materials	
12	Processability of polymeric composite materials	
13	Polymeric composites and conventional materials	
14	Polymeric composites and conventional materials	

22	Textbooks, References and/or Other Materials:	
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	20.00
Quiz	0	0.00
Home work-project	1	20.00
Final Exam		60.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Success Grade			
Theoretical			
Contribution of Final Exam to Success Grade	60.00		
Practicals/Labs			
Total	100.00		
Self study and preperation			
Homeworks			
Projects			

24	<b>ECTS / WORK LOAD TABLE</b>															
	Field Studies															
	Midterm exams															
	Others															
	Final Exams															
	Total Work Load															
	Total work load/ 30 hr															
	ECTS Credit of the Course															

25	<b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b>															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	1 very low		2 low		3 Medium		4 High		5 Very High							