CONTINUUM MECHANICS										
1	Course Title:	CONTINUUM MECHANICS								
2	Course Code:	MAK6208								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
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	h							
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	Prof. Dr. ALİ SÜRMEN							
15	Course Lecturers:	Doç. Dr. M. İhsan KARAMANGİL								
16	Contact information of the Course Coordinator:	surmen@uludag.edu.tr – 90(224) 2941965 – Müh.Mim.Fak. Otomotiv Müh.Böl.								
17	Website:									
18	Objective of the Course:	Moving under the influence of a force or motion and deformation of deformable material defining the real problem encountered in almost all engineering applications. This solution to the problem of the identification can be made and the most common method for the production of the substance on a continuous basis in structure identification and modeling of this problem. The purpose of this course, starting with the basic knowledge of vector and tensor analysis, the "continuous media" is approached as the kinematic and dynamic behavior of structural materials mathematics (formulation) is to provide understanding. This course, mechanical engineering, mathematics, science, the theory which seems to constitute the infrastructure. That is a lesson in mathematics and real engineering problems, which constitutes the meeting point. Another feature of the course provides a basis for advanced math classes have the nature and size of the mathematical description of some events in nature, falling within the scope of engineering.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	The fundamental vector and tensor analysis informations are learn							
		2	By perceiving that the substance is continuum, the dynamic and kinematic behaviours of substance are resolved in this continiuty.							
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21	Course Content:																	
	Course Content:																	
Week	Theoretical									ractice	•							
1	Indical Notations,																	
2	Indical Notations,																	
3	Tensors																	
4	Tensors																	
5	Linear Transformation																	
6	Linear Transformation																	
7	Kinematics of Continuum Mechanics																	
8	Kinematics of Continuum Mechanics																	
9	Stres																	
10	Stres																	
11	Linear Elastic Solids																	
12	Linear Elastic Solids																	
13	Newtonian Viscos Fluids																	
14	Newtonian Viscos Fluids																	
22	Tex	tbook	s. Re	ferenc	es an	d/or O	ther		W	/. M. La	i. D. R	ubin. E	Kremp	I: Intro	duction	to Cont	inuum	
Activitas								M	Mechanics ISBN 0.7506				6 2804 4 Butterworth-Heinema					
Activites									number			Dura		l oad (hour)				
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Theoretical R									14				3.00			42.00		
Practicals/Labs									0				0.00			0.00		
Self study and preperation 0								0.	0.98			4.50	4.50			45.00		
Homeworks									2				40.00			80.00		
Fingle	Fingle Esam 1								5	50 ₀ 00				0.00			0.00	
Field Studies									0				0.00			0.00		
Mantellavition of Sterm (Year) Learning Activities to									5	50 ₀ 00				0.00			0.00	
Others									0			0.00	0.00			0.00		
Final Exams									5	50,00			28.00	28.00			28.00	
Total Work Load																	195.00	
Massworked ango Hyaluation Techniques Used in the									ie								6.50	
ECTS Credit of the Course																	5.00	
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		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2		0	5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	
I O: Learning Objectives PO: Program Qualifications												1						
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