

FINITE ELEMENT ANALYSIS IN THERMOFLUIDS

1	Course Title:	FINITE ELEMENT ANALYSIS IN THERMOFLUIDS	
2	Course Code:	MAK5225	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
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. İRFAN KARAGÖZ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Prof. Dr. Muhsin Kılıç mkilic@uludag.edu.tr Adres: Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Ali Durmaz Makine Mühendisliği Binası DM:220 16059 Görükle/BURSA Tel: 0224 294 1953	
17	Website:		
18	Objective of the Course:	The aim of the course is to teach the basics of the finite element methods and its applications on the heat transfer and fluid flow applications.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Introduction of the basics of the finite element methods.
		2	Heat transfer analysis with FEM can be learnt.
		3	Fluid flow analysis with FEM can be learnt.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Description of the basics of the finite element methods, basic concepts and definitions.		
2	Elements and shape functions: one dimensional elements.		

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