

PARTIAL DIFFERENTIAL EQUATIONS AND ENG. APPLICATIONS

1	Course Title:	PARTIAL DIFFERENTIAL EQUATIONS AND ENG. APPLICATIONS	
2	Course Code:	MAK 5247	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	7.50	
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. YAŞAR PALA	
15	Course Lecturers:	Prof.Dr. Yaşar PALA	
16	Contact information of the Course Coordinator:	Prof.Dr. Yaşar PALA mypala@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The objective of the lecture is to teach the general theory of classical mechanics and apply the results of this theory to the problems of rigid and non-rigid bodies and mechanical systems. It is also the goal of the lecture to set up the necessary solution strategy for the problems.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Presenting application areas and the general solution methods of partial differential equations as a common subject.
		2	Giving the success of the using the knowledge of Mathematics, basic sciences and engineering.
		3	Giving the success of defining, modelling and solving of the problems in mechanical engineering and other areas.
		4	Inoculating a global point of view to the science with the engineering first.
		5	
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Basic principles. First order partial differential equations. Applications.		

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