

HYDRAULIC MACHINERY

1	Course Title:	HYDRAULIC MACHINERY
2	Course Code:	MAK3006
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
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:	No
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. İRFAN KARAGÖZ
15	Course Lecturers:	Prof.Dr. İrfan Karagöz Prof.Dr. Atakan Avcı
16	Contact information of the Course Coordinator:	karagoz@uludag.edu.tr Bursa Uludağ Üniversitesi 41960
17	Website:	
18	Objective of the Course:	This course is designed to introduce engineering students to the application of governing fluid flow equations and dimensional analysis to the hydraulic machinery, to give the student working knowledge of the principles, design and operation of pumps and turbines.
19	Contribution of the Course to Professional Development:	Students will have the knowledge and skills about the design of the turbines, pumps and ventilators that they will encounter in their professional life, as well as the use of them in engineering systems.
20	Learning Outcomes:	
	1	Ability to apply the basic principles and equations governing the fluid flow to turbomachinery
	2	Ability to analyze the means by which the energy transfer is achieved in the chief types of hydraulic machines and efficiency
	3	Ability to explain the principles, design and operation characteristics of pumps and turbines
	4	Ability to use the dimensionless numbers for turbomachines
	5	Ability to analyze and design hydraulic machinery systems,
	6	Ability to select the right type of pump and turbine for given operating conditions
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21	Course Content:	
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ÖK3	0	5	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK4	2	4	3	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK5	2	2	5	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK6	1	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			