FLUID MECHANICS

1	Course Title:	FLUID MECHANICS	
2	Course Code:	BSM2807	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	1.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	none	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. ALİ VARDAR	
15	Course Lecturers:	YOK	
16	Contact information of the Course Coordinator:	Prof. Dr. Ali Vardar e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA	
17	Website:		
18	Objective of the Course:	Give the basic concepts of fluid mechanics, examine the state of hydrostatic stagnant fluids, the conservation equations to give fluids to crawl, to examine the flow in open channels, to the methods of measurement of fluids.	
19	Contribution of the Course to Professional Development:	It contributes to the student's understanding of professional issues in upper classes.	
20	Learning Outcomes:		
		1	Learn basic concepts of fluid mechanics
		2	Stagnant fluids to detect the status of the hydrostatic
		3	Learn the conservation equations
		4	Grasp the continuity equation
		5	
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		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction, Importance and Topics of Fluid Mechanics	Sample Solution
2	Basic concepts	Sample Solution
3	Basic concepts	Sample Solution

4	Properties of Fluids	Sample Solution
5	Properties of Fluids	Sample Solution
6	Properties of Fluids	Sample Solution
7	Repetition of course	Sample Solution
8	Pressure and Fluid Statics	Sample Solution
9	Pressure and Fluid Statics	Sample Solution
10	Fluid Kinematics	Sample Solution
11	Conservation Equations - General Topics and Energy Equations	Sample Solution
12	Conservation Equations - Bernoulli Equations	Sample Solution
13	Conservation Equations - Bernoulli Equations	Sample Solution
14	Conservation Equations - Continuity Equations	Sample Solution
22	Textbooks, References and/or Other Materials:	Çengel, Y.A, Cimbala J.M., 2010. Akışkanlar Mekaniği Temelleri ve Uygulamaları (3. Baskı), Palme Yayıncılık, İstanbul.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Midterm Exam, Homework and Final Exam

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			115.00
Total work load/ 30 hr			3.83
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	0	0	0	5	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**