FLUID MECHANICS										
1	Course Title:	FLUID M	IECHANICS							
2	Course Code:	OTO300	7							
3	Type of Course:	Compuls	ory							
4	Level of Course:	First Cyc	le							
5	Year of Study:	3								
6	Semester:	5								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	4.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	Yok								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	GÖKHAN SEVİLGEN							
15	Course Lecturers:	Dr. Öğr.	Üyesi Emre BULUT							
16	Contact information of the Course Coordinator:	Prof. Dr. gsevilger Müh. Böl	Gökhan SEVİLGEN n@uludag.edu.tr / 2242942648 / U.Ü. Müh. Fak. Otomotiv lümü BURSA							
17	Website:	None								
18	Objective of the Course:	To provid fundame professio	de knowledge the automotive engineering students on ntals of fluid mechanics which is often encounter in their onal lives.							
19	Contribution of the Course to Professional Development:	To provid fundame professio	de knowledge the automotive engineering students on ntals of fluid mechanics which is often encounter in their onal lives.							
20	Learning Outcomes:									
		1	Understand fundamentals of fluid mechanics.							
		2	Determine the hydrostatic pressure forces.							
		3	Determine the conservation equations for frictionless flow.							
		4	Understand the friction flows							
		5	Knowledge on fundamentals of dimensional analysis, aerodynamic modeling and forces.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Introduction to fluid mechanics, basic concepts and dimensions	2								
2	Velocity, rotation viscosity, surface te and evaporation pressure and invest flow technical	ension igation of								
3	Measurement and pressure equilibrit compressible and incompressible sta	um of atic flows								

4	Hydrostatic pressure forces, translation and rotation																		
5	Frictionless flows analysis																		
6	Conti Reyn flows	inuity nolds	y and trans	mome sport th	entum neorei	equati m at fri	on ar ctionl	nd the ess											
7	Ener flows	gy a S	nd Be	rnoull	i equa	itions a	t frict	ionles	s										
8	Cour	se R	leview	and I	Midter	m exa	m												
9	Fricti	on fl	ows a	nalysi	s														
10	Laminar flow																		
11	Turb	ulent	t flow																
12	Loca syste	l los ems	ses in	pipes	and	multipl	e pip	e											
13	Dime and f	ensio force	onal ai es	nalysis	s, aero	odynam	nic m	odelin	g										
14	Gene	eral p	oractio	ce of s	olved	proble	ms												
22	Textbooks, References and/or Other Materials:									 Akışkanlar Mekaniği, Prof. Dr. Habib UMUR Fluid Mechanics, Frank W. White, Mc-Graw Hill Boundary-Layer Theory, Dr. Hermann Schlichting 									
23	Asse	sme	nt																
TERM L	EARN	NING	ACTI	VITIES	;		1	NUMBE	E W	EIGHT									
Activites									Numb	ber		Dura	ition (Total Work Load (hour)					
Theoret 0									0.	99			4.00 5			56.00			
Practica	als/La	abs					<i>_</i>	•		0			0.00	0.00 0.00					
Self study and preperation 3									10	100 14			8.00	8.00 112.00					
Homew	vorks									0		0.00		(0.00				
Project	Sution	of E	inol E	vom te			rodo		5	50.00				0.00			0.00		
Field S	Field Studies									0		0.00	0.00			0.00			
Midtern	n exa	ms								2.00			4.00		6	8.00			
Others	Others												0.00		(0.00			
Final E. 24	Final Exams 24 IECTS / WORK LOAD TABLE												4.00		4.00				
Total W	otal Work Load										188.00								
FOTS Credit of the Course										0.00									
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAI QUALIFICATIONS													SRAM	лме				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	C)	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0		
ÖK2	C)	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK3	3	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0		

ÖK5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			:	2 low			3 Medium			4 High			5 Very High			