

# DIESEL ENGINES AND FUEL SYSTEMS

1	Course Title:	DIESEL ENGINES AND FUEL SYSTEMS
2	Course Code:	OTOZ205
3	Type of Course:	Compulsory
4	Level of Course:	Short 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):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	To have knowledge of machine elements in basic level,
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. CAFER KAPLAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Öğr.Gör.Ömer Özkoca ozkoca@uludag.edu.tr, Tel: 224 2942343, U.Ü. T.B.M.Y.O Otomotiv Teknolojisi Programı
17	Website:	
18	Objective of the Course:	To understand the fuel system and elements of diesel engine vehicles, To be able to perform maintenance and repair of diesel fuel injection systems.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To be able to perform maintenance and repair of parts of diesel fuel injection system, diesel injection system,

	2	<p>The row-type fuel injection pump, D.P.A. (Distributor Type Pumps) To implement maintenance and control, Google Translate</p> <p>İngilizceyi ana diliniz gibi konuşmak için klasik yöntemlere son. Hemen Tıklayın!</p> <p>Son çevirilen kelimeleri gösterme!</p> <p>ara Başkaları ne arıyor?</p> <p>kandil Fransızca &lt;&gt; Türkçe 11:08:40</p> <p>vasi Osmanlıca &lt;&gt; Türkçe 11:08:40</p> <p>münazara Türkçe &lt;&gt; Türkçe 11:08:40</p> <p>annehmen 11:08:39</p> <p>beautiful İngilizce &lt;&gt; Türkçe 11:08:38</p> <p>consulting 11:08:38</p> <p>???? 11:08:37</p> <p>pièce en trois actes 11:08:37</p> <p>??? 11:08:37</p> <p>Expire 11:08:37</p> <p>işveren İspanyolca &lt;&gt; Türkçe 11:08:36</p> <p>Ördek 11:08:35</p> <p>hem 11:08:34</p> <p>Disari Almanca &lt;&gt; Türkçe 11:08:32</p> <p>sunmak 11:08:32</p> <p>support 11:08:32</p> <p>transaction İngilizce &lt;&gt; Türkçe 11:08:32</p> <p>rahatsızlık 11:08:31</p> <p>above İngilizce &lt;&gt; Türkçe 11:08:31</p> <p>sometimes 11:08:29</p> <p>VEKALETNAME 11:08:29</p>
--	---	--

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	31	2.00	62.00
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	4	1.00	4.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

	7	
	8	
	9	
	10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Fuel System (Fuel Depot, Feed Pump, Fuel Pipes, Filter	Diesel Workshop applications
2	Overfilling Systems, Reasons for Using Overfilling Systems in Internal Combustion Engines	Diesel Workshop applications

3	Types of Overfilling Systems Used in Diesel Engines	Diesel Workshop applications
4	Mechanical Overfill (Super Charge), Excess Turbo Compressor Overfill	Diesel Workshop applications
5	Intercooler System	Diesel Workshop applications
6	Fuel Injection Pumps, Sequential Fuel Injection Pump	Diesel Workshop applications
7	D.P.A. Type Pump	Diesel Workshop applications
8	Electronic Fuel System	Diesel Workshop applications
9	Common Rail Diesel Injection System	Diesel Workshop applications
10	Sensors working with Common Rail Diesel Injection System	Diesel Workshop applications
11	Injectors	Diesel Workshop applications
12	Inspection and Adjustment of Injectors	Diesel Workshop applications
13	Diesel Engines Electronic Control Units	Diesel Workshop applications
14	Diagnosis Device	Diesel Workshop applications

22	Textbooks, References and/or Other Materials:	Diesel Engines Lecture Notes, Ö.Özkoca
----	---	--

23	Assessment	
----	------------	--

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		

24	ECTS / WORK LOAD TABLE
----	------------------------

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	2	3	4	0	0	0	0	0	3	3	0	0	0	0	0	0
ÖK2	3	2	5	0	0	0	0	0	2	4	0	0	0	0	0	0
ÖK3	3	3	2	0	0	0	0	0	3	3	0	0	0	0	0	0
ÖK4	4	3	3	0	0	0	0	0	3	3	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			