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	The row-type fuel injection pump, D.P.A. (Distributor Type Pumps) To implement maintenance and control, Google Translate İngilizceyi ana diliniz gibi konuşmak için klasik yöntemlere son. Hemen Tıklayın! Son çevirilen kelimeleri gösterme! ara Başkaları ne arıyor? kandil Fransızca <> Türkçe 11:08:40 vasi Osmanlıca <> Türkçe 11:08:40 münazara Türkçe <> Türkçe 11:08:40 annehmen 11:08:39 beautiful İngilizce <> Türkçe 11:08:38 consulting 11:08:38 ???? 11:08:37 pièce en trois actes 11:08:37 ??? 11:08:37 Expire 11:08:37 işveren İspanyolca <> Türkçe 11:08:36 Ördek 11:08:35 hem 11:08:34 Disari Almanca <> Türkçe 11:08:32 sunmak 11:08:32 support 11:08:32 transaction İngilizce <> Türkçe 11:08:32 rahatsızlık 11:08:31 above İngilizce <> Türkçe 11:08:31 sometimes 11:08:29 VEKALETNAME 11:08:29 cigale 11:08:28 documentation 11:08:28 tren istasyonu İngilizce <> Türkçe 11:08:27 lake 11:08:26 kitchen 11:08:25 forensic 11:08:24 armut ağacı Fransızca <> Türkçe 11:08:23 massen 11:08:23 Göktürkçe Türkçe <> Türkçe 11:08:21 Okul TV, Okul Videoları En çok kullandığınız sözlüklere buradan ulaşabilir ve giriş sayfanız o
	3	To recognize the electronically controlled injection (self-contained) pump and Common Rail systems,
	4	To make general control of the diesel fuel injection system with the diagnostic tester.
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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 Comman 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	Diagnos Device	Diesel Workshop applications

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

24 ECTS / WORK LOAD TABLE

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	2	31.00	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	1	1.00	1.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
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	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**			