ENGINE TECHNOLOGY

1	Course Title:	ENGINE TECHNOLOGY	
2	Course Code:	OTOZ103	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	2	
11	Prerequisites:	Course in basic machine elements to be taken	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. ÖMER ÖZKOCA	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Öğr.Gör.Ömer Özkoca (ozkoca@uludag.edu.tr, Tel:2242942343, B.U.Ü.Teknik Bil.M.Y.O. Bursa)	
17	Website:		
18	Objective of the Course:	Able to maintain and repair all the components on the vehicle engine.	
19	Contribution of the Course to Professional Development:	To provide students with knowledge and skills about engine technology that they can use in their professional lives	
20	Learning Outcomes:		
		1	Engine parts that make up the know, understand the rules of procedure
		2	To understand basic engine concepts
		3	To be able to perform basic mechanical operations
		4	To be able to make maintenance and repair of the engine cooling system and lubricating system
		5	To understand the engine disassembly and assembly techniques, failure on the search, to learn the methods of removal
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21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Measurement instruments, engine terms	Presentation and workshop faculty member

2	Two-and four-stroke Otto Cycle, Cycles, Cycles of diesel	Presentation and workshop faculty member
3	Measuring and control engines	Presentation and workshop faculty member
4	Valves, Cylinder Cover	Presentation and workshop faculty member
5	Valve Mechanisms	Presentation and workshop faculty member
6	The Piston and connecting rod mechanism	Presentation and workshop faculty member
7	Piston rings	Presentation and workshop faculty member
8	Course repetition and Midterm Exam	
9	Cam Shafts and crank shaft	Presentation and workshop faculty member
10	Timing setting mechanisms	Presentation and workshop faculty member
11	Variable Valve Timing	Presentation and workshop faculty member
12	Variable Valve Timing	Presentation and workshop faculty member
13	Engine Blocks	Presentation and workshop faculty member
14	Lubrication System	Presentation and workshop faculty member

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	1	24.00	24.00
Homeworks	1	30.00	30.00
Projects	0	0.00	0.00
Field Studies	1	39.00	39.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			151.00
ECTS Credit of the Course			5.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Animation programs	14	40.00
Quiz	0	0.00
Final Exam	1	60.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total work load / 30 hr		5.03

Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.

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	5	4	0	5	5	4	4	0	4	5	0	0	0	0	0	0
ÖK2	5	5	4	4	4	0	0	0	4	5	0	0	0	0	0	0

ÖK3	5	4	4	4	4	0	0	0	4	5	0	0	0	0	0	0
ÖK4	5	5	0	5	5	0	0	0	4	5	0	0	0	0	0	0
ÖK5	5	4	4	4	4	0	4	0	4	5	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**