

MEASUREMENT TECHNOLOGY

1	Course Title:	MEASUREMENT TECHNOLOGY	
2	Course Code:	OTOS203	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	Knowing the basic machine elements	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör. BEKİR ERDAĞ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	(ozkoca@uludag.edu.tr, 2242942343,U.Ü.Teknik Bil.M.Y.O. Bursa)	
17	Website:		
18	Objective of the Course:	Recognize and use appropriate measurement tools	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To learn Measuring instruments and to know the standards
		2	To learn Measurement and control terminology
		3	To learn Electrical and electronic measuring devices
		4	To do maintenance of the measuring instrument
		5	Vehicle and engine parts to make measurements
		6	
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		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Measurement and Control Terminology, Dimensional Measurement Indirect (Comparative) Measurement Methods		
2	Measuring Instruments Direct Measurement Methods, Indirect (Comparative) Measurement Methods		
3	Direct Measurement Methods Indirect (Comparative) Measurement Methods		

4	Calipers	
5	Micrometers	
6	Comparators, Gauges, feeler gage	
7	National and International Systems of Units	
8	Course repetition and Midterm Exam	
9	To do Maintenance and Configuring Measuring Instruments	
10	Electrical Measuring Instruments	
11	Electrical Measuring Instruments	
12	To do the calibration of Measuring Instruments	
13	Other measurement tools (laser, etc.)	
14	Concept and Measurement Method of Surface Roughne	

22	Textbooks, References and/or Other Materials:	Measuring Science Lecture Notes; Ö.Özkoca
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam	1	35.00
Quiz	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Contribution of Term (Year) Learning Activities to	50.00		
Practicals/Labs	14	1.00	14.00
Self-study and Preparation to Success Grade	50.00	1.00	10.00
Homeworks	1	18.00	18.00
Projects	0	0.00	0.00
Measurement and Evaluation Techniques Used in the			
Field Studies	1	7.00	7.00
Midterm Exams	1	9.00	9.00
Others	0	0.00	0.00
Final Exams	1	18.00	18.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

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

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