MATHEMATICS FOR TECHNICIANS II

1	Course Title:	MATHEMATICS FOR TECHNICIANS II
2	Course Code:	OTPZ102
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. HÜLYA BOZYOKUŞ
15	Course Lecturers:	Öğr.Gör. Hülya BOZYOKUŞ
16	Contact information of the Course Coordinator:	hulya@uludag.edu.tr 0224 2942378 Bursa Uludağ Üniversitesi Teknik Bilimler MYO 16059 Nilüfer,Bursa
17	Website:	
18	Objective of the Course:	The student, for the profession to gain the necessary competence to apply mathematical knowledge and skills to work.
19	Contribution of the Course to Professional Development:	Undergraduate students will be provided with experience on Professional Mathematics 2 subjects.
20	Learning Outcomes:	
	1	Information about the course, Preliminary Informatio
	2	The concept of function, Some special functions.
	3	Domains of functions, operations performed on funct
	4	Derivatives of trigonometric, exponential and logarith
	5	Limit concept.
	6	The concept of derivative and derivative rules
	7	Derivatives of Functions
	8	Professional Application
	9	Indefinite Integral.
	10	Definite integral and its applications
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introducing the course, rudiments	
2	The concept of function	
3	Sets the definition of functions, Functions of Operations	
4	trigonometric, exponential and logarithmic functions	

5	limit concept, the concept of derivative and derivative rules,	
6	functions of derivatives	
7	functions of derivatives	
8	General Repetition and Midterm Exam	
9	Professional applications of Derivatives	
10	Indefinite Integral	
11	Indefinite Integral	
12	Definite integral and its applications	
13	Definite integral and its applications	
14	Definite integral and its applications	

22	Textbooks, References and/or Other Materials:	Basri Çelik (2010), Temel Matematik, Dora Yayınları Basri Çelik (2012), Mesleki Matematik, Dora Yayınları
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
Contribution of Final Exam to Success Grade	1	60.00
Measurement and Evaluation Techniques Used in the Undergraduate Education	Measurement and evaluation is carried out according to Regulation.	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
24 ECTS / WORK LOAD TABLE			
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			62.00
Total work load/ 30 hr			2.07
ECTS Credit of the Course			2.00

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	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
ÖK2	1	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0
ÖK4	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
ÖK6	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0
ÖK7	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0
ÖK8	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ÖK9	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
ÖK10	0	1	0	0	1	0	0	0	0	0	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**