Course title			Code	semester	T+U	credit	ECTS				
Math 1			one	4+0	4	6					
Prerequisite	Courses	None	l	·	l .		-				
Language of the Course		English									
		Undergraduate	2								
Type of Course		Compulsory									
Course Coo	rdinator										
Instructors											
Course Assi											
The aim of lesson		This course teaches first year students about the basic concepts of mathematics and introduces them to the importance of mathematics in other subjects. At the same time, this course shows that mathematics is a basic science.									
Course Content		Analytical examination of a truth. Functions, limit concept, derivative and application, linear transformations, matrices and applications									
Course Lear	rning	At the end of t									
Outcomes		1) Uses the co					able.				
		2) Comprehends the importance of derivative in engineering.									
		3) Apply differentiation methods to different problems.4) Comprehends the importance of integral in engineering.									
			Comprehends the integration methods.								
Weeks	Topics										
one	Sets, Real and complex numbers.										
2	Function and types of functions.										
3	Limit, continuity, applications of the limit.										
4	Derivative and its various applications										
5	Inverse trigonometric functions										
6	Exponential function and logarithm function, Hyperbolic functions										
7	Various Problems										
8	Parametric equations, polar coordinates										
9	Differential, curvature										
10	radius of curvature, circle of curvature										
11th	mean theorem										
12	Taylor and Maclaurin formulas, indefinite shapes										
13	Ť	Determinants, matrices, systems of linear equations, matrix forms, vectors									
14	An overview										
	•		General Con	npetencies							

resources

- 1) Murathan Cengizhan, Özdamar Ertuğrul, Hacısalihoğlu H. Hilmi, Ekmekçi Nejat, Yaylı Yusuf, Solved Differential Geometry Problems Volume: 2, Bilim Publications, 2005.
- 2) Hacısalihoğlu H. Hilmi, Linear Algebra Vol:2, Hacısalihoğlu Publishing, 2000.
- 3) Balcı Mustafa, General Mathematics 2, Balcı Publications, 2007.
- 4) Balcı Mustafa, Solved General Mathematical Problems 1, Balcı Publications, 2007.

Evaluation System

The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

				WITH	PROGRA	M LEARN	ING OUT	COMES			
			COUR	SE LEAR	NING OU	JTCOMES	S RELATI	ONSHIP T	FABLE		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	5	5	5	2	2						
LO2	5	5	5	3	3						
LO3	5	5	4	2	3						
LO4	5	5	5	3	3						
LO5	5	5	5	4	4						
			LO	Learning	Outcome	s OP: Prog	gram Outc	omes			
Contri bution Level	1 Very Low		2 Low		3 Medium 4 High		5 Ve	5 Very High			

Relation of Program Outcomes and Related Course

Course name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Math 1	5	5	5	3	3						