

Course Name	Course Code	Semester	T + P	Credit	ECTS
Mathematics I		1	4 + 0	4	5

Prerequisite Courses	None
----------------------	------

If the language of Code	Turkish
Course class	Compulsory
If the Coordinator of Code	
Instructor	
Assistant Course	No
Objective of Course	This course provides first year learners with basic concepts of mathematics and introduces them to the importance of mathematics in other subjects.
Course Learning Output	The students completed the course: <ul style="list-style-type: none"> It can form the infrastructure of the solution through the differential equation He has knowledge about the basic subjects of mathematics.
Contents Course	Analytical examination of a line. Functions, limit concept, derivative and application, linear transformations, matrix and applications

Weeks	Topics
1	Real and complex numbers.
2	Function and function types.
3	Limit, continuity, limite applications.
4	Various applications of derivative and derivative
5	Inverse trigonometric functions
6	Exponential function and logarithm function, Hyperbolic functions
7	Parametric equations, polar coordinates
8	MIDTERM
9	Differential, curvature,
10	Curvature radius, curvature circle
11	Average theorem
12	Taylor and Maclaurin formulas, indeterminate shapes
13	Determinants, matrixs, linear equation systems, matrix forms, vectors
14	An overview
15	FINAL EXAM

General Sufficiency
In evaluations, it is important for students to understand the main points of this lesson and use it in engineering applications.
References
<ul style="list-style-type: none"> Çözümlü Diferensiyel Geometri Problemleri Cilt: 2, Cengizhan Murathan, Ertuğrul Özdamar, H. Hilmi Hacısalihoğlu, Nejat Ekmekçi, Yusuf Yaylı, Bilim Yayınları Prof. Dr. Mustafa Balcı'nın yayınlanmış kitapları, Genel Matematik – 1 Balcı Yayınları, Genel Matematik – 2 Balcı Yayınları, Çözümlü Genel Matematik Problemleri – 1 Balcı Yayınları, Çözümlü Genel Matematik Problemleri - 2 Balcı Yayınları, Matematik Analiz – 1 Balcı Yayınları, Matematik Analiz – 2 Balcı Yayınları, Çözümlü Matematik Analiz Problemleri – 1 Balcı Yayınları, Çözümlü Matematik Analiz Problemleri – 2 Balcı Yayınları, Temel Matematik (MYO ve Eğ.Fak.için) Prof. Dr. H. Hilmi Hacısalihoğlu, Lineer Cebir Cilt:2, Hacısalihoğlu Yayıncılık
Assessment
Midterm: 40% Final exam: 60% of the project or assignment can be made and announced at the beginning of the semester evaluations.