

Course Name	Course Code	Semester	T + P	Credit	ECTS
Mathematics II		2	4 + 0	4	4

Prerequisite Courses	None
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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 students with information 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 the basic science.
Course Learning Output	<b>The students completed the course:</b> <ul style="list-style-type: none"> <li>At the end of this course, the student will be prepared to solve the problems encountered in various departmental lessons through differential equations.</li> </ul>
Contents Course	Definite and indefinite integrals, applications of integrals (volume and volume of rotors), generalized integrals, series and arrays, conics.

Weeks	Topics
1	Indefinite integral
2	Integration methods
3	Definite integral
4	Volume of areas and rotational bodies
5	Integral and different applications
6	Approximate integration. Generalized integrals
7	Function series
8	MIDTERM
9	Taylor series
10	Maclaurin series
11	Operations with series
12	Vector
13	Lines, planes and tapers.
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"> <li>Çözümlü Diferensiyel Geometri Problemleri Cilt: 2, Cengizhan Murathan, Ertuğrul Özdamar, H. Hilmi Hacısalihoğlu, Nejat Ekmekçi, Yusuf Yaylı, Bilim Yayınları</li> <li>Prof. Dr. Mustafa Balcı'nın yayınlanmış kitapları, Genel Matematik – 1 Balcı Yayınları, Genel Matematik – 2 Balcı Yayınları, Çözümlü Genel Matematik Problemleri – 1 Balcı Yayınları,</li> <li>Çözümlü Genel Matematik Problemleri - 2 Balcı Yayınları, Matematik Analiz – 1 Balcı Yayınları,</li> <li>Matematik Analiz – 2 Balcı Yayınları, Çözümlü Matematik Analiz Problemleri – 1 Balcı Yayınları,</li> <li>Çözümlü Matematik Analiz Problemleri – 2 Balcı Yayınları, Temel Matematik (MYO ve Eğ.Fak.için) Balcı Yayınları, Analitik Geometri Balcı Yayınları, Reel Analiz Balcı Yayınları</li> <li>Prof. Dr. H. Hilmi Hacısalihoğlu , Lineer Cebir Cilt:2, Hacısalihoğlu Yayıncılık</li> </ul>
Assessment
Midterm: 40% Final exam: 60% of the project or assignment can be made and announced at the beginning of the semester evaluations.