

ISTANBUL TECHNICAL UNIVERSITY FACULTY OF SCIENCE AND LETTERS
DEPARTMENT OF MATHEMATICAL ENGINEERING
MAT210E ENGINEERING MATHEMATICS 2018-2019 SUMMER SEMESTER

MAT210E Course Coordinator: Güler Arsan / Evren Tanrıöver

COURSE SYLLABUS

Courses are given by:

CRN	INSTRUCTOR	Bulding	Day	Time	Room
30396	Ayşegül Tepe	MED	Pazartesi	1030/1329	A13
		MED	Salı	1430/1729	A13
		MED	Çarşamba	1030/1229	A14
30400	Metin Taylan	GDB	Salı	0830/1229	410
		GDB	Çarşamba	1330/1729	409
30401	Metin Taylan	GDB	Salı	1330/1729	410
		GDB	Çarşamba	0830/1229	410
30398	Figen Özen	FEB	Perşembe	0830/1229	D102
		FEB	Cuma	0830/1229	D102
30399	Figen Özen	FEB	Perşembe	1330/1729	D102
		FEB	Cuma	1330/1729	D102

TEXT BOOK: Differential Equations & Linear Algebra Third Edition, C.Henry Edwards ; David E. Penney, Pearson International Education, 2011.

TOPICS:

1. Matrices and Systems of Equations
2. Vector Spaces
3. First Order Differential Equations
4. Higher Order Differential Equations
5. Eigenvalues and Eigenvectors
6. Linear Systems of Differential Equations
7. The Laplace Transform

Worksheets are in the relevant folder at www.mat.itu.edu.tr (MATSİS)

(To access this information, the students must log in with their ITU usernames and passwords).

WORKSHEETS & TOPICS	
WORKSHEET # 1	Matrices and Systems of Equations
WORKSHEET # 2	Vector Space
WORKSHEET # 3	First Order Differential Equations
WORKSHEET # 4	Higher Order Differential Equations
WORKSHEET # 5	Eigenvalues, Eigenvectors
WORKSHEET # 6	Linear Systems of Differential Equations
WORKSHEET # 7	The Laplace Transform

Midterm Date: 12 July 2019 Friday, between 18.00 - 20.00.

All details will be announced at the site www.mat.itu.edu.tr (MATSiS) In case there is an unexpected change in the date or place of the exam, regularly check announcements on www.mat.itu.edu.tr. **The**

Topics of the Midterm:

1. Matrices and Systems of Equations
2. Vector Spaces
3. First Order Differential Equations

Final Exam:

The date will be announced by "Student Affairs Office-SIS" at the site. (www.sis.itu.edu.tr).

The Topics of the Final Exam:

4. Higher Order Differential Equations
5. Eigenvalues and Eigenvectors
6. Linear Systems of Differential Equations
7. The Laplace Transform

WEEK	WEEKLY TOPIC DISTRIBUTION
1	Matrices and Systems of Equations
2	Vector Space
3	Vector Space / First Order Differential Equations
4	First Order Differential Equations / Higher Order Differential Equations
	MIDTERM
5	Higher Order Differential Equations / Eigenvalues, Eigenvectors
6	Linear Systems of Differential Equations
7	The Laplace Transform
8	FINAL EXAM

Effective as of 2019 Spring semester, assessment of the grades in MAT Common courses has been updated as follows.

- In Math Common courses, there are two exams of equal weight: one midterm exam with 50% contribution to the final grade and one final exam with 50% contribution to the final grade.
- Students not attending at least 70% of the courses are not admitted to the final exam. Additionally, students failing to score at least **25%** in the midterm exam, are not admitted to the final exam and receive VF.
- Students failing to score at least **35%** in total from the midterm and final exam together, receive FF.
- The other grades are determined by relative grading system.

We wish you all a good semester.