



Adiyaman Üniversitesi
FACULTY OF SCIENCE AND LITERATURE
Department Of Mathematics
Matematik

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlİT 101	ATATURK'S PRINCIPLES AND HISTORY OF THE REVOLUTIONS I	2+0+0	Compulsory	2
FZK 101	PHYSICS I	4+0+0	Compulsory	5
MTK 103	CALCULUS I	4+2+0	Compulsory	6
MTK 105	ABSTRACT MATHEMATICS I	3+0+0	Compulsory	6
MTK 107	ANALYTIC GEOMETRY I	3+0+0	Compulsory	6
TD 101	TURKISH LANGUAGE	2+0+0	Compulsory	2
YD 101	ENGLISH I	2+0+0	Compulsory	3
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlİT 102	ATATURK'S PRINCIPLES AND HISTORY OF THE REVOLUTIONS II	2+0+0	Compulsory	2
ENF 102	TECHNOLOGY OF FOUNDATION INFORMATION	2+0+0	Compulsory	4
FZK 102	PHYSICS II	4+0+0	Compulsory	5
MTK 104	CALCULUS II	4+2+0	Compulsory	6
MTK 106	ABSTRACT MATHEMATICS II	3+0+0	Compulsory	4
MTK 108	ANALYTIC GEOMETRY II	3+0+0	Compulsory	4
TD 102	TURKISH LANGUAGE II	2+0+0	Compulsory	2
YD 102	ENGLISH II	2+0+0	Compulsory	3
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 201	LINEAR ALGEBRA I	4+0+0	Compulsory	6
MTK 203	PROBABILITY AND STATISTICS I	3+0+0	Compulsory	6
MTK 205	ADVANCED CALCULUS I	4+0+0	Compulsory	6
MTK 207	PROGRAMMING I	2+2+0	Compulsory	6
MTK 209	NUMERICAL ANALYSIS I	3+0+0	Compulsory	6
Total ECTS				30

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 202	LINEAR ALGEBRA II	4+0+0	Compulsory	6
MTK 204	PROBABILITY AND STATISTICS II	3+0+0	Compulsory	6
MTK 206	ADVANCED CALCULUS II	4+0+0	Compulsory	6
MTK 208	PROGRAMMING II	2+2+0	Compulsory	6
MTK 210	NUMERICAL ANALYSIS II	3+0+0	Compulsory	6
Total ECTS				30

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 301	ALGEBRA I	4+0+0	Compulsory	5
MTK 303	DIFFERENTIAL EQUATIONS I	3+0+0	Compulsory	5
MTK 305	THEORY OF COMPLEX FUNCTIONS I	4+0+0	Compulsory	5
MTK 307	TOPOLOGY I	3+0+0	Compulsory	5
MTK 309	VOCATIONAL ENGLISH	3+0+0	Compulsory	5
SEÇ I	ELECTIVE COURSE POOL (1 COURSE TO BE CHOSEN)	3+0+0	Elective	5
Total ECTS				30

MTK 311	LINEAR PROGRAMMING (E)	3+0+0	Elective	5
MTK 313	TRANSFORMATIONS AND GEOMETRIES (E)	3+0+0	Elective	5
MTK 315	MATHEMATICS ANALYSIS	3+0+0	Elective	5
MTK 317	METRIC SPACES (E)	3+0+0	Elective	5

6.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 302	ALGEBRA II	4+0+0	Compulsory	5
MTK 304	DIFFERENTIAL EQUATIONS II	3+0+0	Compulsory	5
MTK 306	THEORY OF COMPLEX FUNCTIONS II	4+0+0	Compulsory	5

MTK 308	TOPOLOGY II	3+0+0	Compulsory	5
MTK 310	REAL ANALYSIS	3+0+0	Compulsory	5
SEÇ II	ELECTIVE COURSE POOL (1 COURSE TO BE CHOSEN)	3+0+0	Elective	5
Total ECTS				30

MTK 312	DIFFERENCE EQUATIONS (E)	3+0+0	Elective	5
MTK 314	FUZZY MATHEMATICS (E)	3+0+0	Elective	5
MTK 316	FUNDAMENTALS OF GEOMETRY (E)	3+0+0	Elective	5
MTK 318	HISTORY OF MATHEMATICS (E)	3+0+0	Elective	5

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 401	PARTIAL DIFFERENTIAL EQUATIONS	3+0+0	Compulsory	5
MTK 403	DIFFERENTIAL GEOMETRY I	3+0+0	Compulsory	5
MTK 405	FUNCTIONAL ANALYSIS I	3+0+0	Compulsory	5
MTK 451	COMPLETION WORK I	0+2+0	Compulsory	5
SEÇ III	ELECTIVE COURSE POOL (2 COURSES TO BE CHOSEN)	3+0+0	Elective	5
Total ECTS				25

iDL 453	SIGN LANGUAGE	2+0+0	Elective	5
MTK 407	DISCRETE MATHEMATICS	3+0+0	Elective	5
MTK 409	SCIENTIFIC TEXT PREPARING	3+0+0	Elective	5
MTK 411	FOURIER ANALYSIS	3+0+0	Elective	5
MTK 413	CONVEXITY AND OPTIMIZATION	3+0+0	Elective	5
MTK 415	MODULE THEORY	3+0+0	Elective	5

8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MTK 402	FINANCIAL MATHEMATICS	3+0+0	Compulsory	5
MTK 404	DIFFERENTIAL GEOMETRY II	3+0+0	Compulsory	5
MTK 406	FUNCTIONAL ANALYSIS II	3+0+0	Compulsory	5
MTK 452	COMPLETION WORK II	0+2+0	Compulsory	5
SEÇ IV	ELECTIVE COURSE POOL (2 COURSES TO BE CHOSEN)	3+0+0	Elective	10
Total ECTS				30

AHL 454	THE AHI COMMUNITY and VOCATIONAL ETHICS	2+0+0	Elective	5
MTK 408	COMPUTER AIDED MATHEMATICS	3+0+0	Elective	5
MTK 410	FIELD EXTENSIONS	3+0+0	Elective	5
MTK 412	COMBINATORICS	3+0+0	Elective	5
MTK 414	MEASUREMENT THEORY	3+0+0	Elective	5
MTK 416	FINITE DIFFERENCE METHODS	3+0+0	Elective	5