



# Alanya Alaaddin Keykubat Üniversitesi

## FACULTY OF EDUCATION

### DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION

#### İLKÖĞRETİM MATEMATİK ÖĞRETMENLİĞİ

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 101	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2+0+0	Compulsory	3
ING 101	FOREIGN LANGUAGE I	2+0+0	Compulsory	3
MAT 101	ANALYSIS I	4+2+0	Compulsory	8
MAT 103	ABSTRACT ALGEBRA	3+0+0	Compulsory	4
MAT 105	LINEAR ALGEBRA I	3+0+0	Compulsory	4
MAT 107	INTRODUCTION TO EDUCATIONAL SCIENCE	2+0+0	Compulsory	3
MAT 109	INFORMATION TECHNOLOGIES	0+2+0	Compulsory	2
TDB 101	TURKISH LANGUAGE I	2+0+0	Compulsory	3
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 102	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2+0+0	Compulsory	3
ING 102	FOREIGN LANGUAGE II	2+0+0	Compulsory	3
MAT 102	ANALYSIS II	4+2+0	Compulsory	8
MAT 104	HISTORY OF MATHEMATICS	2+0+0	Compulsory	3
MAT 106	LINEAR ALGEBRA II	3+0+0	Compulsory	4
MAT 108	EUCLIDEAN GEOMETRY	3+0+0	Compulsory	3
MAT 110	EDUCATIONAL PSYCHOLOGY	2+0+0	Compulsory	3
TDB 102	TURKISH LANGUAGE II	2+0+0	Compulsory	3
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 201	ANALYSIS III	3+0+0	Compulsory	4
MAT 203	PROBABILITY	3+0+0	Compulsory	4
MAT 205	ANALYTIC GEOMETRY I	3+0+0	Compulsory	4
MAT 207	TEACHING NUMBERS	3+0+0	Compulsory	4
MAT 209	MATHEMATICS TEACHING AND LEARNING APPROACHES	2+0+0	Compulsory	3
MAT 211	PRINCIPLES AND METHODS OF TEACHING	2+0+0	Compulsory	3
SEC 201	DEPARTMENTAL ELECTIVE COURSE 1	2+0+0	Elective	3
SEC 203	PROFESSIONAL ELECTIVE COURSE I	2+0+0	Elective	3
SEC 205	CULTURAL ELECTIVE COURSE I	2+0+0	Elective	2
Total ECTS				30

Course Groups				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
SEC 201.1	SCHOOL MATHEMATICS IN THE WORLD	2+0+0	Elective	3
SEC 201.2	MODELLING IN MATHEMATICS EDUCATION	2+0+0	Elective	3
SEC 201.3	MIND AND STRATEGY GAMES IN MATHEMATICS TEACHING	2+0+0	Elective	3
SEC 201.4	SPATIAL THINKING SKILL IN MATHEMATICS TEACHING	2+0+0	Elective	3
SEC 201.5	TEACHING AND EVALUATION OF MATHEMATICAL PROCESS SKILLS	2+0+0	Elective	3
SEC 201.6	OUT OF SCHOOL LEARNING ENVIRONMENTS IN MATHEMATICS TEACHING	2+0+0	Elective	3
SEC 201.7	TENSORS	2+0+0	Elective	3
SEC 201.8	ALGORITHM AND PROGRAMMING	2+0+0	Elective	3
SEC 203.1	CODING AND ITS APPLICATIONS IN EDUCATION	2+0+0	Elective	3
SEC 203.2	LEARNING PROCESSES	2+0+0	Elective	3
SEC 203.3	EDUCATIONAL SOCIOLOGY	2+0+0	Elective	3
SEC 203.4	CHARACTER AND VALUES EDUCATION	2+0+0	Elective	3
SEC 203.5	EDUCATIONAL ANTHROPOLOGY	2+0+0	Elective	3
SEC 203.6	MUSEUM EDUCATION	2+0+0	Elective	3
SEC 203.7	SUSTAINABLE DEVELOPMENT AND EDUCATION	2+0+0	Elective	3
SEC 205.1	COMMUNITY SERVICES	2+0+0	Elective	2
SEC 205.10	TRADITIONAL TURKISH CRAFTS	2+0+0	Elective	2
SEC 205.11	ECONOMY AND ENTREPRENEURSHIP	2+0+0	Elective	2
SEC 205.2	MATHEMATICS AND ART	2+0+0	Elective	2
SEC 205.3	NUMBER SENSE	2+0+0	Elective	2
SEC 205.4	PROPORTIONAL REASONING	2+0+0	Elective	2
SEC 205.5	MEDIA LITERACY	2+0+0	Elective	2
SEC 205.6	FIRST AID	2+0+0	Elective	2
SEC 205.7	CLINICAL PILATES	2+0+0	Elective	2

SEC 205.8	SELECTED STORIES FROM MASNAVI	2+0+0	Elective	2
SEC 205.9	HUMAN RIGHTS AND DEMOCRACY	2+0+0	Elective	2

#### 4.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 202	ANALYSIS IV	3+0+0	Compulsory	6
MAT 204	STATISTICS	3+0+0	Compulsory	5
MAT 206	ANALYTIC GEOMETRY II	3+0+0	Compulsory	5
MAT 208	TEACHING GEOMETRY AND MEASUREMENT	3+0+0	Compulsory	5
MAT 210	INSTRUCTIONAL TECHNOLOGIES	2+0+0	Compulsory	4
SEC 202	PROFESSIONAL ELECTIVE COURSE II	2+0+0	Elective	3
SEC 204	CULTURAL ELECTIVE COURSE II	2+0+0	Elective	2

**Total ECTS**      **30**

#### Course Groups

SEC 202.1	THEORY OF MULTIPLE INTELLIGENCE	2+0+0	Elective	3
SEC 202.2	INDIVIDUALIZATION AND ADAPTATION OF TEACHING	2+0+0	Elective	3
SEC 202.3	CHILD PSYCHOLOGY	2+0+0	Elective	3
SEC 202.4	DRAMA	2+0+0	Elective	3
SEC 202.5	....	2+0+0	Elective	3
SEC 202.6	.....	2+0+0	Elective	3
SEC 204.1	GEOMETRICAL THINKING	2+0+0	Elective	2
SEC 204.10	REAL MEDICINE	2+0+0	Elective	2
SEC 204.11	CULTURE AND LANGUAGE	2+0+0	Elective	2
SEC 204.12	EFFECTIVE AND GOOD SPEAKING	2+0+0	Elective	2
SEC 204.13	CRITICAL THINKING AND CREATIVITY	2+0+0	Elective	2
SEC 204.2	TURKISH MUSIC	2+0+0	Elective	2
SEC 204.3	ADDICTION AND STRUGGLE WITH ADDICTION	2+0+0	Elective	2
SEC 204.4	SPORTS CULTURE	2+0+0	Elective	2
SEC 204.5	TENNIS	2+0+0	Elective	2
SEC 204.6	TURKISH CULTURAL GEOGRAPHY	2+0+0	Elective	2
SEC 204.7	SECOND FOREIGN LANGUAGE (RUSSIAN)	2+0+0	Elective	2
SEC 204.8	HUMAN RELATIONS AND COMMUNICATION	2+0+0	Elective	2
SEC 204.9	WEB 2.0 TOOLS	2+0+0	Elective	2

#### 5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 301	DIFFERENTIAL EQUATIONS	4+0+0	Compulsory	7
MAT 303	TEACHING ALGEBRA	3+0+0	Compulsory	5
MAT 305	PHILOSOPHY OF EDUCATION	2+0+0	Compulsory	3
MAT 307	COMPUTER AIDED EDUCATION	3+0+0	Compulsory	5
SEC 301	DEPARTMENTAL ELECTIVE COURSE II	3+0+0	Elective	5
SEC 303	PROFESSIONAL ELECTIVE COURSE III	2+0+0	Elective	3
SEC 305	CULTURAL ELECTIVE COURSE III	2+0+0	Elective	2

**Total ECTS**      **30**

#### Course Groups

SEC 301.1	-- -	3+0+0	Elective	5
SEC 301.2	--	3+0+0	Elective	5
SEC 301.3	-- -	3+0+0	Elective	5
SEC 301.4	-- -	3+0+0	Elective	5
SEC 301.5	-- -	3+0+0	Elective	5
SEC 301.6	-- -	3+0+0	Elective	5
SEC 303.1	.....	2+0+0	Elective	3
SEC 303.2	....	2+0+0	Elective	3
SEC 303.3	.....	2+0+0	Elective	3
SEC 303.4	.....	2+0+0	Elective	3
SEC 303.5	.....	2+0+0	Elective	3
SEC 303.6	.....	2+0+0	Elective	3
SEC 303.7	.....	2+0+0	Elective	3
SEC 305.1	.....	2+0+0	Elective	2
SEC 305.10	....	2+0+0	Elective	2
SEC 305.11	.....	2+0+0	Elective	2
SEC 305.2	.....	2+0+0	Elective	2
SEC 305.3	.....	2+0+0	Elective	2
SEC 305.4	.....	2+0+0	Elective	2
SEC 305.5	.....	2+0+0	Elective	2
SEC 305.6	.....	2+0+0	Elective	2
SEC 305.7	.....	2+0+0	Elective	2
SEC 305.8	.....	2+0+0	Elective	2
SEC 305.9	.....	2+0+0	Elective	2

6.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 302	ALGEBRA	3+0+0	Compulsory	6
MAT 304	PROBLEM SOLVING IN MATHEMATICS	2+0+0	Compulsory	5
MAT 306	TEACHING PROBABILITY AND STATISTICS	3+0+0	Compulsory	5
MAT 308	CLASSROOM MANAGEMENT	2+0+0	Compulsory	3
MAT 310	MEASUREMENT AND ASSESSMENT IN EDUCATION	2+0+0	Compulsory	3
SEC 302	DEPARTMENTAL ELECTIVE COURSE III	2+0+0	Elective	3
SEC 304	PROFESSIONAL ELECTIVE COURSE IV	2+0+0	Elective	3
SEC 306	CULTURAL ELECTIVE COURSE IV	2+0+0	Elective	2
<b>Total ECTS</b>				<b>30</b>
Course Groups				
SEC 302.1	--	2+0+0	Elective	3
SEC 302.2	-- --	2+0+0	Elective	3
SEC 302.3	--	2+0+0	Elective	3
SEC 302.4	-- -	2+0+0	Elective	3
SEC 302.5	-- -	2+0+0	Elective	3
SEC 302.6	-- -	2+0+0	Elective	3
SEC 304.1	.....	2+0+0	Elective	3
SEC 304.2	....	2+0+0	Elective	3
SEC 304.3	.....	2+0+0	Elective	3
SEC 304.4	.....	2+0+0	Elective	3
SEC 304.5	.....	2+0+0	Elective	3
SEC 304.6	.....	2+0+0	Elective	3
SEC 306.1	....	2+0+0	Elective	2
SEC 306.10	....	2+0+0	Elective	2
SEC 306.11	.....	2+0+0	Elective	2
SEC 306.12	....	2+0+0	Elective	2
SEC 306.2	.....	2+0+0	Elective	2
SEC 306.3	....	2+0+0	Elective	2
SEC 306.4	....	2+0+0	Elective	2
SEC 306.5	LOGIC	2+0+0	Elective	2
SEC 306.6	.....	2+0+0	Elective	2
SEC 306.7	....	2+0+0	Elective	2
SEC 306.8	.....	2+0+0	Elective	2
SEC 306.9	.....	2+0+0	Elective	2

7.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 401	MISCONCEPTIONS IN MATHEMATICS TEACHING	2+0+0	Compulsory	3
MAT 403	ELEMENTARY NUMBER THEORY	3+0+0	Compulsory	4
MAT 405	SCIENTIFIC RESEARCH METHODS	2+0+0	Compulsory	3
MAT 407	TEACHING PRACTICE I	2+6+0	Compulsory	12
SEC 401	DEPARTMENTAL ELECTIVE COURSE IV	2+0+0	Elective	3
SEC 403	PROFESSIONAL ELECTIVE COURSE V	2+0+0	Elective	3
SEC 405	CULTURAL ELECTIVE COURSE V	2+0+0	Elective	2
<b>Total ECTS</b>				<b>30</b>
Course Groups				
SEC 401.1	.....	2+0+0	Elective	3
SEC 401.2	.....	2+0+0	Elective	3
SEC 401.3	.....	2+0+0	Elective	3
SEC 401.4	.....	2+0+0	Elective	3
SEC 401.5	.....	2+0+0	Elective	3
SEC 401.6	.....	2+0+0	Elective	3
SEC 401.7	.....	2+0+0	Elective	3
SEC 401.8	.....	2+0+0	Elective	3
SEC 401.9	.....	2+0+0	Elective	3
SEC 403.1	....	2+0+0	Elective	3
SEC 403.2	.....	2+0+0	Elective	3
SEC 403.3	.....	2+0+0	Elective	3
SEC 403.4	.....	2+0+0	Elective	3
SEC 403.5	.....	2+0+0	Elective	3
SEC 403.6	.....	2+0+0	Elective	3
SEC 403.7	.....	2+0+0	Elective	3
SEC 405.1	.....	2+0+0	Elective	2
SEC 405.10	.....	2+0+0	Elective	2
SEC 405.11	.....	2+0+0	Elective	2
SEC 405.2	....	2+0+0	Elective	2

SEC 405.3	HISTORY AND PHILOSOPHY OF SCIENCE	2+0+0	Elective	2
SEC 405.4	.....	2+0+0	Elective	2
SEC 405.5	....	2+0+0	Elective	2
SEC 405.6	.....	2+0+0	Elective	2
SEC 405.7	....	2+0+0	Elective	2
SEC 405.8	.....	2+0+0	Elective	2
SEC 405.9	.....	2+0+0	Elective	2

#### 8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MAT 402	PHILOSOPHY OF MATHEMATICS	2+0+0	Compulsory	4
MAT 404	GUIDANCE IN SCHOOLS	2+0+0	Compulsory	3
MAT 406	RESEARCH PROJECT	0+2+0	Compulsory	5
MAT 408	TEACHING PRACTICE II	2+6+0	Compulsory	12
SEC 402	DEPARTMENTAL ELECTIVE COURSE V	2+0+0	Elective	3
SEC 404	PROFESSIONAL ELECTIVE COURSE VI	2+0+0	Elective	3
			<b>Total ECTS</b>	<b>30</b>
<b>Course Groups</b>				
SEC 402.1	.....	2+0+0	Elective	3
SEC 402.2	.....	2+0+0	Elective	3
SEC 402.3	.....	2+0+0	Elective	3
SEC 402.4	.....	2+0+0	Elective	3
SEC 402.5	.....	2+0+0	Elective	3
SEC 402.6	.....	2+0+0	Elective	3
SEC 402.7	.....	2+0+0	Elective	3
SEC 402.8	.....	2+0+0	Elective	3
SEC 402.9	.....	2+0+0	Elective	3
SEC 404.1	.....	2+0+0	Elective	3
SEC 404.2	.....	2+0+0	Elective	3
SEC 404.3	.....	2+0+0	Elective	3