

I. SEMESTER							II. SEMESTER						
Course Code	Course Name	C/E	T	P	C	ECTS	Course Code	Course Name	C/E	T	P	C	ECTS
MTE1101	Analysis I	C	2	2	3	6	MTE1102	Analysis II	C	2	2	3	6
MTE1103	Abstract Mathematics	C	3	0	3	4	MTE1104	Euclidean Geometry	C	3	0	3	5
MTE1105	Fundamentals of Mathematics Education	C	2	0	2	3	MTE1106	Technology Supported Mathematics Teaching	C	2	0	2	5
MTE1107	History of Mathematics	C	2	0	2	3	MTE1108	Basic Physics	C	2	2	3	5
EGT1101	Introduction to Education	C	2	0	2	3	EGT1102	Educational Psychology	C	2	0	2	3
EGT1103	Information Technologies	C	3	0	3	5	TRD110	Turkish Language II	C	2	0	2	2
TRD109	Turkish Language I	C	2	0	2	2	AIT102	Atatürk's Principles and History of Revolution II	C	2	0	2	2
AIT101	Atatürk's Principles and History of Revolution I	C	2	0	2	2	YDI108	English II	C	2	0	2	2
YDI107	English I	C	2	0	2	2							
TOTAL							TOTAL						
							17 4 19 30						
III. SEMESTER							IV. SEMESTER						
Course Code	Course Name	C/E	T	P	C	ECTS	Course Code	Course Name	C/E	T	P	C	ECTS
MTE2101	Analysis III	C	2	2	3	6	MTE2102	Analytic Geometry	C	3	0	3	4
MTE2103	Linear Algebra I	C	3	0	3	3	MTE2104	Linear Algebra II	C	3	0	3	3
MTE2105	Mathematics Learning and Teaching Approaches	C	3	0	3	4	MTE2106	Possibility	C	2	0	2	3
MTE2107	Research Methods in Mathematics Education	C	2	0	2	3	MTE2108	Project Development in Mathematics Education	C	2	0	2	3
EGT2101	Teaching Principles and Methods	C	2	0	2	3	MTE2110	Community Service Practices	C	1	2	2	3
MTE	Subject-Specific Pedagogy Elective I	E	2	0	2	4	EGT2102	Instructional Technology	C	2	0	2	3
EGS	Professional Knowledge Elective I	E	2	0	2	4	MTE	Subject-Specific Pedagogy Elective II	E	2	0	2	4
SSD	Social Elective I	E	2	0	2	3	EGS	Professional Knowledge Elective II	E	2	0	2	4
							SSD	Social Elective II	E	2	0	2	3
	Subject-Specific Pedagogy Elective I Course List							Subject-Specific Pedagogy Elective II Course List					
MTE2109	Primary School Mathematics Teaching	E	2	0	2	4	MTE2112	Out-Of-School Learning Environments in Mathematics Teaching	E	2	0	2	4
MTE2111	Mathematics and Art	E	2	0	2	4	MTE2114	Career Planning in Mathematics Education	E	2	0	2	4
MTE2113	Self-Regulation in Mathematics Education	E	2	0	2	4	MTE2116	Creative Drama in Mathematics Education	E	2	0	2	4
TOTAL							TOTAL						
							19 2 20 30						
V. SEMESTER							VI. SEMESTER						
Course Code	Course Name	C/E	T	P	C	ECTS	Course Code	Course Name	C/E	T	P	C	ECTS
MTE3101	Algebra	C	2	0	2	3	MTE3102	Algorithms and Programming	C	2	0	2	3
MTE3103	Statistics	C	2	0	2	3	MTE3104	Teaching Algebra	C	4	0	4	5
MTE3105	Teaching Numbers	C	4	0	4	5	MTE3106	Teaching Probability and Statistics	C	3	0	3	4
MTE3107	Teaching of Geometry and Measurement	C	4	0	4	5	MTE3108	Mathematics Course Curricula	C	2	0	2	4
EGT3101	Classroom Management	C	2	0	2	3	EGT3102	Measurement and Evaluation in Education	C	2	0	2	3
MTE	Subject-Specific Pedagogy Elective III	E	2	0	2	4	MTE	Subject-Specific Pedagogy Elective IV	E	2	0	2	4
EGS	Professional Knowledge Elective III	E	2	0	2	4	EGS	Professional Knowledge Elective IV	E	2	0	2	4
SSD	Social Elective III	E	2	0	2	3	SSD	Social Elective IV	E	2	0	2	3
	Subject-Specific Pedagogy Elective III Course List							Subject-Specific Pedagogy Elective IV Course List					
MTE3109	Mathematics Teaching through Game	E	2	0	2	4	MTE3110	Material Design in Mathematics Teaching	E	2	0	2	4
MTE3111	Activity Development in Mathematics Teaching	E	2	0	2	4	MTE3112	Measurement and Evaluation in Mathematics Education	E	2	0	2	4
MTE3113	Sociomathematical Norms in Mathematics Education	E	2	0	2	4							
TOTAL							TOTAL						
							19 0 19 30						
VII. SEMESTER							VIII. SEMESTER						
Course Code	Course Name	C/E	T	P	C	ECTS	Course Code	Course Name	C/E	T	P	C	ECTS
MTE4101	Problem Solving and Problem Posing in Mathematics	C	3	0	3	3	MTE4102	Philosophy of Mathematics	C	2	0	2	3
MTE4103	Logical Reasoning	C	2	0	2	3	MTE4104	Mathematics Instruction for Students with Special Needs	C	2	0	2	4
MTE4105	Associating in Mathematics Teaching	C	2	0	2	3	MTE4106	Teaching Practice II	C	2	6	5	10
MTE4107	Teaching Practice I	C	2	6	5	10	MTE4108	Misconceptions in Mathematics Teaching	C	2	0	2	3
EGT4101	Special Education and Inclusion	C	2	0	2	3	EGT4102	Guidance in Schools	C	2	0	2	3
MTE	Subject-Specific Pedagogy Elective V	E	2	0	2	4	MTE	Subject-Specific Pedagogy Elective VII	E	2	0	2	4
MTE	Subject-Specific Pedagogy Elective VI	E	2	0	2	4	MTE	Subject-Specific Pedagogy Elective VIII	E	2	0	2	4
	Subject-Specific Pedagogy Elective V Course List							Subject-Specific Pedagogy Elective VII Course List					
MTE4109	Modeling in Mathematics Teaching	E	2	0	2	4	MTE4110	Mathematics Education and STEM	E	2	0	2	4
MTE4111	Affective Factors in Mathematics Education	E	2	0	2	4	MTE4112	Mathematics Learning Disability	E	2	0	2	4
MTE4113	Mathematical Proofs and Their Teaching	E	2	0	2	4	MTE4114	Communication in Mathematics Classes	E	2	0	2	4
	Subject-Specific Pedagogy Elective VI Course List							Subject-Specific Pedagogy Elective VIII Course List					
MTE4115	Inclusion Applications in Mathematics Education	E	2	0	2	4	MTE4116	Culture and Mathematics	E	2	0	2	4
MTE4117	Evaluation of Classroom Learning	E	2	0	2	4	MTE4118	Mathematical Literacy	E	2	0	2	4
MTE4119	Artificial Intelligence Applications in Mathematics Education	E	2	0	2	4	MTE4120	Teaching Mathematics to Gifted Students	E	2	0	2	4
TOTAL							TOTAL						
							14 6 17 30						
TOTAL NUMBER OF COURSES							63						
TOTAL Theoretical Course Hours							142						
TOTAL Practical Course Hours							22						
Total Instructional Hours							164						
Total Credits							153						
Total ECTS Credits							240						
Total Elective Course ECTS Credits							60						

Professional Knowledge Elective Course List	
Proposed Course Code	Course Name
EGS1101	Open and Distance Learning
EGS1102	European Education Area
EGS1103	Holistic Education
EGS1104	Multicultural Education
EGS1105	Values and Civic Education
EGS1106	Educational Leadership
EGS1107	Education and green transformation
EGS1108	21st Century Skills in Education
EGS1109	Drama in Education
EGS1110	Differentiation in Education
EGS1111	Current Developments in Education
EGS1112	Gamification and Game-Based Learning in Education
EGS1113	Curriculum Development in Education
EGS1114	Curriculum Literacy in Education
EGS1115	Project Development in Education
EGS1116	Socio-Emotional Development in Education
EGS1117	Artificial Intelligence in Education
EGS1118	Next-Generation Assessment Approaches in Education
EGS1119	Climate Change and Education
EGS1120	Inclusive Education
EGS1121	Comparative Education
EGS1122	Advantages and Disadvantages of Education in Rural Areas
EGS1123	Volunteering in Crisis and Disaster Situations
EGS1124	Micro Teaching
EGS1125	Museum Education
EGS1126	Out-of-School Learning Environments
EGS1127	Instructional Design
EGS1128	Teaching Profession and Professional Ethics
EGS1129	Robotic Coding
EGS1130	Sustainability Literacy and Education
EGS1131	History of Turkish Education
EGS1132	Artificial Intelligence-Supported Instructional Design
EGS1133	Adult Education and Lifelong Learning
EGS1134	21st Century Literacy in Education

EGS1135	Alternative Schools
EGS1136	Educational Sociology
EGS1137	Educational Philosophy
EGS1138	Turkish Education System and School Management
EGS1139	Learning and Behavioral Problems in Children
EGS1140	Designing and Using Instructional Materials