

DERS PROGRAMI

I. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
MAT831	Analysis I	Required Courses	7.0
MAT835	The Foundations of Mathematics	Required Courses	4.0
MAT837	History of Mathematics	Required Courses	4.0
ÖMB109	Introduction to Educational Science	Required Courses	4.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	Required Courses	2.0
TÜR125	Turkish Language I	Required Courses	2.0
	Elective Courses		4.0
	Foreign Language Courses		3.0
Sum			30

II. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
MAT816	Abstract Mathematics	Required Courses	5.0
MAT826	Geometry	Required Courses	4.0
MAT832	Analysis II	Required Courses	6.0
ÖMB116	Educational Psychology	Required Courses	4.0
TAR166	Atatürk's Principles and History of Turkish Revolution II	Required Courses	2.0
TÜR126	Turkish Language II	Required Courses	2.0
	Area Elective Courses		4.0
	Foreign Language Courses		3.0
Sum			30

III. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
MAT293	Linear Algebra I	Required Courses	4.0
MAT299	Mathematics Learning and Teaching Approaches	Required Courses	4.0
MAT833	Calculus III	Required Courses	4.0
MAT839	Analytic Geometry I	Required Courses	4.0
ÖMB213	Teaching Principles and Methods	Required Courses	4.0

III. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ÖMB221	Inclusive Education and Individuals with Special Needs	Required Courses	4.0
	Elective Courses		3.0
	Area Elective Courses		3.0
Sum			30

IV. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ARY216	Research Methods in Education	Required Courses	4.0
İST256	Probability	Required Courses	4.0
MAT294	Linear Algebra II	Required Courses	4.0
MAT840	Analytic Geometry II	Required Courses	4.0
ÖMB220	Instructional Technologies and Material Design	Required Courses	4.0
	Elective Courses		3.0
	Area Elective Courses		7.0
Sum			30

V. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
İST353	Statistics	Required Courses	3.0
MAT381	Teaching Numbers and Algebra	Required Courses	6.0
ÖMB321	Education Management	Required Courses	4.0
ÖMB323	Measurement and Evaluation in Education	Required Courses	4.0
	Elective Courses		3.0
	Area Elective Courses		10.0
Sum			30

VI. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
İST356	Teaching Statistics and Probability	Required Courses	5.0
MAT346	Making Connections in Mathematics Teaching	Required Courses	4.0
MAT348	Teaching Geometry and Measurement	Required Courses	5.0
ÖMB322	Curriculum Development	Required Courses	4.0

VI. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ÖMB324	Classroom Management	Required Courses	4.0
	Elective Courses		3.0
	Area Elective Courses		5.0
Sum			30

VII. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
İMÖ413	Teaching Practice I	Required Courses	12.0
MAT445	Problem Solving and Modeling in Mathematics Teaching	Required Courses	5.0
MAT447	Misconceptions in Teaching Mathematics	Required Courses	4.0
ÖMB421	Guidance in School	Required Courses	4.0
	Area Elective Courses		5.0
Sum			30

VIII. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
İMÖ408	Graduation Project	Required Courses	4.0
İMÖ414	Teaching Practice II	Required Courses	12.0
MAT442	Philosophy of Mathematics	Required Courses	4.0
	Area Elective Courses		10.0
Sum			30

Area Elective Courses

Code	Course Title	Laboratory + Practice	ECTS
MAT230	Algorithm and Programming in Mathematics Education (TR)	2 + 1	3.0
MAT280	Introduction to Metric Spaces (TR)	2 + 0	3.0
MAT297	Affective Domain and Self-regulation in Mathematics Education (TR)	3 + 0	4.0
MAT272	Primary School Mathematics Teaching (TR)	3 + 0	5.0
MAT274	Development of Mathematical Proof (TR)	3 + 0	4.0
MAT290	Mathematical Problem Solving Practices (TR)	2 + 0	4.0
İST355	Probabilistic and Statistical Thinking (TR)	3 + 0	5.0

Area Elective Courses			
Code	Course Title	Laboratory + Practice	ECTS
MAT385	Introduction to Differential Equations (TR)	3 + 0	5.0
MAT389	Mathematical Communication (TR)	2 + 0	4.0
MAT395	Use of Technology in Mathematics Education (TR)	3 + 0	5.0
MAT457	Interdisciplinary Approaches in Mathematics Education and (TR)	3 + 0	5.0
ÖMB414	Individualized Education Programs (TR)	3 + 0	4.0
ÖMB415	Open and Distance Learning (TR)	2 + 0	4.0
ÖMB425	Lifelong Learning (TR)	2 + 0	4.0
MAT454	Designing Web-based Projects in Mathematics Education (TR)	3 + 0	5.0
MAT458	Task Design in Mathematics Teaching (TR)	3 + 0	5.0
ÖMB420	Advanced Technologies in Education (TR)	2 + 0	4.0

Elective Courses			
Code	Course Title	Laboratory + Practice	ECTS
EOS101	Academic ve Social Life (TR)	2 + 0	4.0

Foreign Language Courses			
Code	Course Title	Laboratory + Practice	ECTS
İNG187	English I (ENG)(ENG)	3 + 0	3.0
İNG188	English II (ENG)(ENG)	3 + 0	3.0

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