

PHYSICS EDUCATION PROGRAM

FIRST YEAR

First Semester				Second Semester			
PHYS	109	Physics I (Mechanics)	(4-2)5	PHYS	110	Physics II (Electricity and Magnetism)	(4-2)5
CHEM	101	General Chemistry I	(4-2)5	CHEM	102	General Chemistry II	(4-2)5
MATH	117	Calculus I	(4-2)5	MATH	118	Calculus II	(4-2)5
ENG	101	English for Academic Purposes I	(4-0)4	ENG	102	English for Academic Purposes I	(4-0)4
				IS	100	Introduction to Information Technologies and Applications	NC

SECOND YEAR

Third Semester				Fourth Semester			
PHYS	203	Introductory Electronics	(3-2)4	PHYS	202	Modern Physics	(4-0)4
PHYS	209	Math. Methods in Phys.I	(4-0)4	PHYS	210	Math. Methods in Phys. II	(4-0)4
PHYS	221	Optics and Waves	(4-0)4	PHYS	222	Optics and Waves Lab.	(1-4)3
MATH	260	Linear Algebra	(3-0)3	ENG	211	Academic Oral Presentation Skills	(3-0)3
HIST	2201	Principles of Kemal Atatürk I	NC	HIST	2202	Principles of Kemal Atatürk II	NC
EDS	200	Introduction to Education	(3-0)3	EDS	220	Educational Psychology	(3-0)3

THIRD YEAR

Fifth Semester				Sixth Semester			
PHYS	311	Classical Mechanics	(4-2)5	PHYS	300	Quantum Physics	(3-0)3
PHYS	307	Applied Modern Physics Lab	(1-4)3	TURK	306	Turkish II	(2-0)2
TURK	305	Turkish I	(2-0)2	ENG	311	Advanced Communication Skills	(3-0)3
SSME	301	Curriculum Development & Instruction in Science/Mathematics Education	(3-0)3	SSME	302	Measurement & Evaluation in Science/Mathematics Education	(3-0)3
SSME	309	Theories and Approaches in Teaching and Learning of Science/Mathematics	(3-0)3	SSME	400	Computer Applications in Science/Mathematics Education	(2-2)3
Restricted Elective I*			(3-0)3	Elective I			(3-0)3

FOURTH YEAR

Seventh Semester				Eighth Semester			
PHYS	431	Quantum Mechanics I	(4-0)4	PHYS	334	Electromagnetic Theory	(4-2)5
SSME	443	High School Physics Curriculum Review I	(3-0)3	SSME	403	Laboratory Experiments in Science Education	(3-0)3
SSME	511	Methods of Science/Mathematics Teaching I	(2-2)3	SSME	512	Methods of Science/Mathematics Teaching II	(2-2)3
SSME	518	Instructional Technology and Material Development	(2-2)3	EDS	304	Classroom Management	(2-2)3
Elective II			(3-0)3	Elective III			(3-0)3

FIFTH YEAR

Ninth Semester				Tenth Semester			
SSME	534	School Experience in Mathematics Education	(1-4)3	SSME	544	Practice Teaching in Science/Mathematics Education	(2-6)5
EDS	416	Turkish Educational System and School Management	(3-0)3	SSME	555	Research Projects in Science/Mathematics Education	(2-2)3
Restricted Elective II*			(3-0)3	EDS	424	Guidance	(3-0)3
Elective IV			(3-0)3	Restricted Elective III*			(3-0)3

*Restricted electives: Courses offered by the Physics Department are defined as restricted elective.