

FİZİK ÖĞRETMENLİĞİ LİSANS PROGRAMI (PHED)

Year 1

First Semester				Second Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
CHEM 101	General Chemistry I	(4-2)5	7.5	CHEM 102	General Chemistry II	(4-2)5	7.5
ENG 101	English for Academic Purposes I	(4-0)4	6	ENG 102	English for Academic Purposes II	(4-0)4	6
MATH 117	Calculus I	(4-2)5	7.5	MATH 118	Calculus II	(4-2)5	7.5
EDS 200	Introduction to Education	(3-0)3	5	PHYS 112	Physics II (Electricity and Magnetism)	(4-2)5	7.5
PHYS 111	Physics I (Mechanics)	(4-2)5	7.5	MSE 210	Theories of Teaching and Learning in Science and Mathematics	(3-0)3	5
				IS 100	Introduction to Information Technologies and Applications	(0-2)0	1
				BA 100	Career Planning	(1-0) 0	2

Year 2

Third Semester				Fourth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
HIST 201	Principles of Kemal Atatürk I	(2-0)0	2	ENG 211	Academic Oral Presentation Skills	(3-0)3	4
PHYS 203	Introductory Electronics	(3-2)4	8	HIST 202	Principles of Kemal Atatürk II	(2-0)0	2
PHYS 209	Mathematical Methods in Physics I	(4-0)4	8	MSE 305	Assessment of Learning in Science and Mathematics	(3-0)3	6
PHYS 221	Optics and Waves	(4-0)4	8	PHYS 202	Modern Physics	(4-0)4	8
MSE 326	Curriculum Development and Instruction in Science and Mathematics Education	(3-0)3	6	PHYS 210	Mathematical Methods in Physics II	(4-0)4	8
	Free Elective I			PHYS 222	Optics and Waves Laboratory	(1-4)3	6

Year 3

Fifth Semester				Sixth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
PHYS 307	Applied Modern Physics	(1-4)3	7	ENG 311	Advanced Communication Skills	(3-0)3	4
PHYS 335	Classical Mechanics I	(4-0)4	8	MSE 310	Methods of Secondary Science Teaching I	(2-2)3	5
	Restricted Elective I (MSE443)				Restricted Elective II (MSE405)		
TURK 305	Oral Communication	(2-0)2	3	TURK 306	Written Expression	(2-0)2	3
	Free Elective II	(3-0)3	5		Free Elective III	(3-0)3	5
					Restricted Elective III	(3-0)3	5

Year 4

Seventh Semester				Eighth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
EDS 304	Classroom Management	(3-0)3	5	EDS 424	Guidance	(3-0)3	5
MSE 411	Methods of Secondary Science Teaching II	(2-2)3	5	MSE 410	Practice Teaching II	(2-6) 5	10
MSE 329	Instructional Technology and Material Development	(2-2)3	5		Restricted Elective V	(3-0)3	5
MSE 409	Practice Teaching I	(2-6) 5	10		Depart. Elective	(3-0)3	5
	Restricted Elective IV	(3-0)3	5				

Departmental, restricted and free electives must be at least 3 METU credit and 5 ECTS credit each.

Restricted Electives: **MSE 443, MSE 405, and the courses offered by PHYS or ASTR.**