

ADVANCED ATOMICPHYSICS I

1	Course Title:	ADVANCED ATOMICPHYSICS I	
2	Course Code:	FZK5107	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	There is no course prerequisite	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. Hüseyin Ovalıoğlu	
15	Course Lecturers:	Dr. Öğr. Üyesi Handan Engin KIRIMLI, Dr. Öğr. Üyesi Cengiz AKAY, Prof. Dr. Ahmet PEKSÖZ	
16	Contact information of the Course Coordinator:	Doç. Dr. Hüseyin OVALIOĞLU E-mail: ovali@uludag.edu.tr İş Tel: 0 224 29 41 691 Adres: Bursa Uludağ Üniversitesi Fen Edebiyat Fakültesi Fizik Bölümü, 16059 Görükle Kampüsü BURSA	
17	Website:		
18	Objective of the Course:	Reminding of the basic concepts of atomic physics and giving their applications in atomic physics.	
19	Contribution of the Course to Professional Development:	Reminding of the basic concepts of atomic physics and giving their applications in atomic physics.	
20	Learning Outcomes:		
		1	Learn about the causes of the ultra-fine structure in the energy levels of atoms;
		2	Gains knowledge of the methods in which ultra fine structure separations are examined;
		3	Learns the physical parameters required in the analysis of spectrums and has the ability to obtain extreme fine structure constants as a result of analysis.
		4	Learns the interaction of atoms with the electromagnetic field;
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Atomic nature of matter, electron, blackbody radiation		

ÖK3	0	0	0	0	0	5	5	5	0	0	0	0	0	0	0	0
ÖK4	0	0	5	5	5	5	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium			4 High			5 Very High					