ATOMIC SPECTROSCOPIC METHODS												
1	Course Title:	ATOMIC	SPECTROSCOPIC METHODS									
2	Course Code:	KIM6015										
3	Type of Course:	Optional										
4	Level of Course:	Third Cycle										
5	Year of Study:	1	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:	None										
12	Language:	Turkish										
13	Mode of Delivery:	Face to face										
14	Course Coordinator:	Prof. Dr. BELGIN İZGİ										
15	Course Lecturers:	Prof. Dr. Belgin İZGİ Doç. Dr. Elif TÜMAY ÖZER Doç. Dr. Ümran SEVEN ERDEMİR										
16	Contact information of the Course Coordinator:	belgin@uludag.edu.tr 0 224 29 41 728										
17	Website:											
18	Objective of the Course:	The aim of the course to give basic principles about atomization mechanism which is currently used in the field of atomic spectroscopy (AAS, ET-AAS, HG-AAS, ICP-OES, ICP-MS, MWP- AES, XRF). So that students may encounter in graduate study and application of methods of elemental analysis techniques to be successful in their aims.										
19	Contribution of the Course to Professional Development:											
20	Learning Outcomes:											
		1	Understands the purpose of atomic spectroscopy techniques.									
		2	Knows what to use atomic spectroscopy techniques suitable for analytes.									
		3	Can apply the spectroscopy techniques in the laboratory.									
		4	Take advantage of adsorption techniques for their postgraduate studies and evaluate their results.									
		5	Can search the literature about spectroscopic methods and transfer this information into a presentation.									
		6										
		7										
		8										
	9											
		10										
21	Course Content:											
14/		Co	burse Content:									
Week	Week Theoretical Practice											

1	Basic spect			s relate	ed to a	atomic												
2	The b	basic trom	c princ			mic Ab S / ET												
3	AAS	devi	ce inf	ormati	on													
4	Appli	catio	on are	as of	AAS	technic	ques											
5	Plasn	ma S		ometry		uctively ?) (ICP-												
6	ICP c	devic	ce info	ormatio	on													
7	Appli	catio	on are	as of	ICP t	echniq	ues											
8	Spec	trom	netry (	XRF)	(EDX	ray Flu RF/ WI												
9	XRF	devi	ce inf	ormati	on													
10	Appli	catio	on are	as of	XRF	technic	ques											
11	techn	nique	es			on area		RF										
12	analy techn calibr	/sis r nique ratio	results es (lin n tech	s with ear rai inique	atomi nge, L s)	quantit c spect .OD, L0	trosco	ру										
13		Homework presentations																
	14 Evaluation of course												1_					
Activit	es								ſ	Numb	er		Duration (hour)			Load (hour)		
Theore	Theoretical								1	4			3.00		42.00			
Practica	als/La	ıbs							C	)			0.00			0.00		
Self Stu	ngy an	<b>iing</b> ia pr	epera				N	UMBE		цент			5.00			70.00		
Homew	Homeworks								1	1				40.00				
Braject	Brgjects 0								0.6	0.00				0.00				
Field St	d Studies								C	0						0.00		
Middeed	PETLamams 1								50 <sup>1</sup>	50 <sup>1</sup> 00			30.00			30.00		
Others									C	0				0.00			0.00	
Einal E	al Exams ntribution of Term (Year) Learning Activities to								50 <sup>1</sup>	00			30.00			30.00		
Total W	otal Work Load															212.00		
<b>Cotatrity</b>	Contribution of Farah Exam to Success Grade								50.	00					7.07			
ECTS (	CTS Credit of the Course															6.00		
Measur Course		nt an	d Eva	luatior	n Tecl	hnique	s Use	d in th	e									
24	ECT	<b>'S /</b>	WO	RK L	OAD	TAB	LE											
25				CON	TRIB		N OF	E LE/	ARN	ING	ουτα	OME	S TO P	PROG	RAM	ME		
	QUALIFICATIONS																	
	P	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	4		0	0	0	0	0	0	0	0	<b>0</b> 0	0	0	3	0	0	0	
	4	•	U	U	U	U	U	U	U		0	0	U	0		0	0	
ÖK2	0	)	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	0	)	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

ÖK4	0	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	5	0	0	4	5	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 Iow		3	3 Medium			4 High			5 Very High				