MICROMETHODSIN ANALYTICAL CHEMISTRY										
1	Course Title:	MICROMETHODSIN ANALYTICAL CHEMISTRY								
2	Course Code:	KIM6004								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
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								
16	Contact information of the Course Coordinator:	belgin@uludag.edu.tr 0 224 29 41 728								
17	Website:									
18	Objective of the Course: Contribution of the Course to	The aim of the course is to provide information and skills about micro methods to obtain optimum analysis conditions in graduate study. In addition; to give information about comparison of classic and micro methods, so that students may encounter in graduate study and application of these methods to be successful in their aims.								
19	Professional Development:	Gains of basic knowledge in nano level analysis								
20	Learning Outcomes:									
		1	Develop the use of analytical thinking for micro-analysis methods.							
		2	Enhance the ability to develop innovative approaches with selection general methods for analyte in different matrices, depending on the desired method.							
		3	Gain the skill assessment on the uncertainties in the process, during the assessment of the analysis results.							
		4	Develop a new methods according to the analysis of specific substances,							
		5	Select appropriate methods encountering the unknown samples.							
		6	Select appropriate methods of analysis in the form of mixture of substances.							
		7	Use a combination of different methods in constructing the analysis							
		8								
		9								
		10								
21	Course Content:									
10/	T1 (: 1	Co	ourse Content:							
Week	Veek Theoretical Practice									

1	Basic information about the qualitative quantitative analysis methods	e and								
2	Existing uses of the development or p determination methods of analysis, to improve perspective about existing deand equipment									
3	The investigation of selectivity, cost, accuracy and operating range of the n	nethod								
4	Transition of qualitative methods of an used to micro analysis	alysis								
5	Modification of the regulations and pra in terms of quantitative methods of an the micro level									
6	Solid phase micro-extraction method, examination case studies related to mapplications									
7	Spot testing techniques and examples general applications, custom applications areas (criminology, biological, etc.)									
8	Application of ring-oven technique and amplification methods	d								
9	Midterm Exam +repetition of previous	issues								
10	Direct, indirect, and accumulation read and technical information about amplit methods									
11	11 The basic knowledge and benefits of micro-									
Activit	es		N	umber	Duration (hour)	Total Work Load (hour)				
Thegore	Examples of techniques for the chip to	b be	14		3.00	42.00				
Practic	als/Labs	·	0		0.00	0.00				
Self ₄ stu	ฟิทเลชิงใช้เสียสิทิสิทิสิทิร์โรร systems (?-TAS) ส	and	14		42.00					
Homew			1		50.00	50.00				
Project	presentation of students' research in the	he	0		0.00	0.00				
Field S			0		0.00					
	Textbooks, References and/or Other		-	Pure Appl. Chem., V	2579, No. 7, pp. 13					
Others			0 [[4],1	Orensic Science im	0.00 mational. Genetic. 25.00	0.00				
Final E			349-	-353	25.00	25.00				
	Vork Load			mnose ooannar or /	trarytical Orientistry	209.00				
	ork load/ 30 hr		Issu	e 2, February 2006		6.13				
	Credit of the Course		In Urine Specimens [7] Nanotechnology, Jeremy J. Ramsden, Cranfield, ISBN: 978-0-08-096447-8, 2011 [8] www.separationsnow.com [9] www.instrumentalchemistry.com/sampleprep [10] web sources							
23 TERM I	Assesment	NI IMPE	\A/E/	CUT						
TERML		NUMBE R	WEIGHT							
Midtorn	m Exam	1	25.00							
Midterr										
Quiz		0	0.00							
Quiz	work-project	0 1 1	0.00 25.0 50.0	0						

Total	3	100.00					
Contribution of Term (Year) Learning Ac Success Grade	tivities to	50.00					
Contribution of Final Exam to Success G	irade	50.00					
Total		100.00					
Measurement and Evaluation Technique Course	s Used in the	Relative evaluation is applied.					
24 ECTS / WORK LOAD TAB	LE						

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	0	5	0	4	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 ution Level:			2 low		3 Medium			4 High			5 Very High					