FORENSIC CHEMISTRY

1	Course Title:	FORENSIC CHEMISTRY
2	Course Code:	KIM4016
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
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:	Prof. Dr. Belgin İZGİ belgin@uludag.edu.tr 0 224 29 41 728
17	Website:	
18	Objective of the Course:	The aim of the course is to give scientific basis in the field of forensic evaluation and the role of chemistry in forensic and criminal research, data collection, and data analysis techniques used in.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Learn the judicial and criminal matters.
	2	Obtains information about the parameters used in forensic and criminal field and information about the standards.
	3	Follow the current literature.
	4	To know the sampling and analysis of findings steps up and can control the process.
	5	To learn the parameters according to standard methods of analysis.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	The introduction of forensic science, forensic chemistry and the role and importance.	
2	Findings concept, the overall crime scene investigation and evidence collection techniques	

3	General analysis methods used in forensic science.	
4	General analysis methods used in forensic science.	
5	Explosion, explosives and explosives analysis.	
6	Fire-agent analysis of arson and fire accelerator.	
7	Elucidation of crimes committed with firearms, chemical views.	
8	Midterm exam.+ Repetition of previous issues	
9	Drugs, drug analysis	
10	Toxic substances and toxicological investigations.	
11	Fabrics, fibers and analysis.	
12	Paints, inks and analysis.	
13	Clay, soil, glass and metal materials analysis and overall assessment.	
14	DNA and fingerprint analysis.	

22	Textbooks, References and/or Other Materials:	1. R. Saferstein, “Criminalistics An Introduction To Forensic Science”, Third Ed., Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1987 2. A. Meahley, L. Strömberg, “Chemical Criminalistics”, Springer Verlag, Berlin, 1981. Bloodstain Pattern Analysis, Taylor and Francis 2005.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	1	10.00	10.00
Midterm Exam	1	25.00	
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Home work-project	1	25.00	
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Total	3	100.00	
Final Exams	1	30.00	30.00
Total Work Load			144.00
Total work load/ 30 hr			4.80
Contribution of Final Exam to Success Grade		50.00	
ECTS Credit of the Course			5.00
Total		100.00	

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**

Measurement and Evaluation Techniques Used in the Course	

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0

ÖK3	0	0	0	0	0	0	5	4	0	3	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0
ÖK5	0	0	0	0	0	0	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**