ANALYSIS TECHNIQUES OF FINGERPRINT

1	Course Title:	ANALYSIS TECHNIQUES OF FINGERPRINT	
2	Course Code:	ADB6113	
3	Type of Course:	Optional	
4	Level of Course:	Third 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:	none	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. BELGİN İZGİ	
15	Course Lecturers:	Doç. Dr. Sevim AKÇAĞLAR	
16	Contact information of the Course Coordinator:	belgin@uludag.edu.tr +90 224 29 41 728 Bursa Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 16059 Görükle / BURSA, TÜRKİYE	
17	Website:		
18	Objective of the Course:	To provide technical information about fingerprinting, fingerprinting chemicals and the use of techniques and analysis.	
19	Contribution of the Course to Professional Development:	To follow the techniques and innovations related to the field	
20	Learning Outcomes:		
		1	Learns the general chemicals used in fingerprinting.
		2	Learns technical information in fingerprint and crime scene investigation.
		3	Have the necessary information for the analysis of visible and/or invisible residues created by fingerprints on various surfaces.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	What is fingerprint	
2	The history and use of fingerprints as criminal evidence	
3	Fingerprint patterns and classification	

4	Ways and documentation of fingerprint examination at crime scene and laboratory	
5	Transferring fingerprints to digital media	
6	Fingerprint left after contact with blood	
7	Chemicals used to take the erased/wiped bloodstain fingerprint	
8	Physical and chemical effects on fingerprinting	
9	The properties of the surface to be fingerprinted (porous, non-porous, hard, glossy, etc.)	
10	Spectroscopic detection of invisible fingerprints	
11	Experimental approaches to establishing the relationship between fingerprint and DNA	
12	Dusting, ninhydrin techniques and literature review in fingerprinting	
13	Techniques and literature review for fingerprinting from metal surfaces	
14	Techniques and literature review used in taking fingerprints on the skin	

22	Textbooks, References and/or Other Materials:	1-Daluz, Hillary Mosses, Fundamentals of Fingerprint Analysis, CRC, 2019, 1351043196. 2- Davide Maltoni, Dario Maio, Anil K. Jain, Salil Prabhakar, Handbook of fingerprint recognition, 2009, Hawthorne, Fingerprints: Processing, Analysis and Understanding, 2020

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	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	96.00	96.00
Total Work Load			180.00
Contribution of Term (Year) Learning Activities to	40.00		6.00
ECTS Credit of the Course			6.00

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Relative evaluation is applied with exam and homework studies.

22 Assessment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0
Final Exam	1	100

Total work load / 30 hr

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	0	5	4	4	5	4	4	0	0	3	0	0	0	0	0	0

ÖK2	0	0	4	4	5	0	4	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	4	5	4	4	0	0	4	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**