



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Forensic Biology and Genetic							
Course Code		BYL342		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	78 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		This course is designed for students interested in a laboratory based career focusing on the analysis of forensically important biological materials (DNA, blood, and other biological fluids). Students will learn basic techniques in biology and biotechnology to be prepared for professional careers in a crime scene laboratory, research laboratory, industry laboratory, or further study in medicine, or biological science.							
Course Content		Dead body and decomposing steps, detection of age and origin from skeleton. Body fluids and tissues as an forensic marker.DNA and RNA structure and usage as a marker for identification. Detection of finger, lip and ear print. Invertebrates and vertebrates as a forensic marker.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Prof. Fatih Mehmet ŞİMŞEK							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Lecture Notes
2	Essential Forensic Biology, Alan Gunn, Second edition (2009), John Wiley & Sons Ltd. yayın evi, ISBN-978-0-470-75803-8

Week	Weekly Detailed Course Contents	
2	Theoretical	Dead body and decomposing steps
3	Theoretical	Detection of age and origin from skeleton
4	Theoretical	Body fluids
5	Theoretical	Blood cells and detection of blood type
6	Theoretical	Blood and saliva analysis
7	Theoretical	Semen analysis
8	Theoretical	DNA structure and DNA extraction techniques
9	Theoretical	Molecular markers
10	Theoretical	Analysis of bone
11	Theoretical	Detection of finger, lip and ear print
12	Theoretical	Invertebrates as a forensic marker
13	Theoretical	The techniques for invertebrate detection
14	Theoretical	The data from grow rate and movement of invertebrates
15	Theoretical	Vertebrates and forensic biology

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	2	30
Assignment	8	1	1	16
Reading	15	1	1	30
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				78
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Understanding of Forensic biology
2	Understanding of microorganisms as a forensic marker
3	Understanding of invertebrates as a forensic marker
4	Understanding of age detection
5	Understanding of blood and body fluids as a forensic marker
6	Understanding of molecular markers
7	Understanding of differentiation in the body after death

Programme Outcomes (*German Language and Literature*)

1	Students will have advanced knowledge in the field of German Language and Literature in the field of German Language and Literature.
2	To be able to understand the concepts, ideas and data related to German Language and Literature through scientific methods in which he / she has learned and learned; It provides suggestions that can be proved by scientific evidence, evidence or evidence.
3	To inform the German audience about the issues related to German Language and Literature; expresses his / her own thoughts, problems / problems, solution suggestions and methods in written and verbal way.
4	Students will be able to produce scientific studies to be accepted by the experts in the field of Languages, Literatures and Cultures.
5	It carries out advanced studies independently with learning, learning skills and critical thinking.
6	Develops strategic management and implementation plans in the field of German Language and Literature and evaluates the obtained results within the framework of quality processes and uses the obtained data in interdisciplinary studies.
7	Plans and manages the activities and projects for the professional development of the people he works with in the sense of social responsibility.
8	Students will be able to follow and use the German Language and Literature knowledge and gain the competency with their colleagues.
9	It has the competence to observe social, scientific and ethical values ??in the stages of collecting, interpreting and announcing data about German Language and Literature.
10	Uses and develops information and communication technologies with the knowledge of computer software and hardware required by German Language and Literature.
11	She is able to translate from German to Turkish and from German to German so that she can speak an equivalent language and grammar.
12	Obtains the basic professional knowledge related to the learning area.

