

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Forensic Biology and Genetic					
Course Code	BYL342	Couse Level	First Cycle (Bachelor's Degree)			
ECTS Credit 3	Workload 75 (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 ar forensically important biological materials (DNA, blood, and other biological fluids). Students w basic techniques in biology and biotechnology to be prepared for professional careers in a crim laboratory, research laboratory, industry laboratory, or further study in medicine, or biological s			using on the ana ds). Students will areers in a crime , or biological sci	lysis of learn scene ence.		
Course Content	Dead body and decomposin an forensic merker.DNA and lip and ear print. Invertebrate	g steps, detection of a d RNA structure and u es and vertebrates as	age and origin fr sage as a mark a forensic mark	om skeleton. I er for identifica ær.	Body fluids and ti ation. Detection c	issues as of finger,
Work Placement N/A						
Planned Learning Activities	and Teaching Methods	Explanation (Present	ation)			
Name of Lecturer(s) Prof. Fatih Mehmet ŞİMŞEk						

## **Assessment Methods and Criteria**

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

#### **Recommended or Required Reading**

1	Lecture Notes						
2	Essential Forensic Biology, Ala	n Gun	n, Second edition (20	009), John V	Wiley & Sons Ltd.	yayın evi, ISBN-9	78-0-470-75803-8

Week	Weekly Detailed Course Contents				
1	Theoretical	Forensic Biology			
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 (Midterm)			
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			

# **Workload Calculation**

Activity	Quantity	P	reparation	Duration		Total Workload
Lecture - Theory	14		2	2		56
Midterm Examination	1		5	1		6
Final Examination	1		12	1		13
Total Workload (Hours)					75	
[Total Workload (Hours) / 25*] = <b>ECTS</b> 3			3			
*25 hour workload is accepted as 1 ECTS						

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# Learning Outcomes

- 1 Understanding of Forensic biology
- 2 Understanding of microorganisms as a forensic marker



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3	Understanding of invertebrates as a forensic marker	
4	Understanding of age detection	
5	Understanding of blood and body fluids as a forensic marke	r
6	Understanding of molecular markers	
7	Understanding of differentiation in the body after death	

Progr	amme 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.