



**AYDIN ADNAN MENDERES UNIVERSITY**  
**GRADUATE SCHOOL OF HEALTH SCIENCES**  
**MEDICAL BIOLOGY**  
**MEDICAL BIOLOGY**  
**MEDICAL BIOLOGY MASTER**  
**COURSE INFORMATION FORM**

Course Title	Biomolecules								
Course Code	TIB526	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	103 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course									
Course Content									
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	1. NCBI Pubmed ve güncel bilimsel yayınlar
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Week	Weekly Detailed Course Contents	
1	Theoretical	Chemical Bonds
2	Theoretical	Interactions between molecules
3	Theoretical	The structure of DNA
4	Theoretical	The structure of RNA
5	Theoretical	The structure of protein and amino acids
6	Theoretical	The folding of proteins
7	Theoretical	Lipids and carbonhydrates
8	Intermediate Exam	Midterm Exam
9	Theoretical	Modern methods in characterization of biomolecules I
10	Theoretical	Modern methods in characterization of biomolecules II
11	Theoretical	Biyoinformatic methods used to understand protein function
12	Theoretical	Methods used to understand the structure of biomolecules I
13	Theoretical	Methods used to understand the structure of biomolecules II
14	Theoretical	Biomolecules and energy
15	Final Exam	Final Exam

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	5	2	91
Midterm Examination	1	4	2	6
Final Examination	1	4	2	6
Total Workload (Hours)				103
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	
2	
3	
4	



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**Programme Outcomes** (*Medical Biology Master*)

1	To acquire fundamental knowledge on medical biology field
2	To gain expertise on molecular biology techniques
3	To utilize molecular biology techniques
4	To be able to construct and conduct a research project
5	To be able to follow and interpret scientific advancements

**Contribution of Learning Outcomes to Programme Outcomes** 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5	5	5	2	3
P2	1	1	1	1	1
P3	1	1	1	1	1
P4	1	1	1	1	1
P5	3	3	3	5	4

