AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Biomolecules								
Course Code	TIB526		Couse 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)	Prof. Mehtap KILIÇ EREN								

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

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	

5	

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