



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Genomics and Proteomics: An Overview and Importance in Medicine							
Course Code		TIB627		Coure Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	99 <i>(Hours)</i>	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
2	2. Genomics and Proteomics: Principles, Technologies and Applications (2015)

Week	Weekly Detailed Course Contents	
1	Theoretical	Transcriptional Regulation
2	Theoretical	Methods and analytics to understand genetic interactions
3	Theoretical	Methods and analytics to understand protein interactions
4	Theoretical	Preparing samples from pure and complex biological materials
5	Theoretical	Choosing methods specific for the research aim
6	Theoretical	Protein expression and purification
7	Theoretical	Liquid chromatography methods I
8	Intermediate Exam	Midterm Exam
9	Theoretical	Liquid chromatography methods II
10	Theoretical	Mass Spectrometry I
11	Theoretical	Mass Spectrometry II
12	Theoretical	Sequencing Methods
13	Theoretical	Next generation sequencing
14	Theoretical	Microarray analysis
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	5	2	91
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				99
[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 Doctorate*)

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	3	3	3	3
P2	2	2	3	3	4
P3	1	1	2	2	3
P4	3	3	3	3	4
P5	3	3	3	5	5

