AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Molecular Basics of Aging and Aging Diseases								
Course Code	TIB533		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	100 *(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
2	2. Cells , Aging and Human Disease by Michael Fossel (2004)

Week	Weekly Detailed Course Contents	
1	Theoretical	Aging mechanisms and theories I
2	Theoretical	Aging mechanims and theories II
3	Theoretical	Cellular and organismal aging
4	Theoretical	Genes and pathways whose expressions change during aging
5	Theoretical	The scientific aging reserach
6	Theoretical	The aging diseases and their molecular basics
7	Theoretical	The microarray analyses of young and old cells
8	Theoretical	Alzheimer’s Disease and its molecular basics
9	Intermediate Exam	Midterm Exam
10	Theoretical	Parkinson’s Disease and its molecular basics
11	Theoretical	Huntington’s Disease and its molecular basics
12	Theoretical	Cancer and its molecular basics
13	Theoretical	Metabolic syndrome and its molecular basics
14	Theoretical	Cardiac disease and its molecular basics
15	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	4	2	78
Midterm Examination	1	8	2	10
Final Examination	1	10	2	12
			Total Workload (Hours)	100
			[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