



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

Course Title	Molecular Biology of Cancer								
Course Code	TIB522	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	5	Workload	123 (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)	Assoc. Prof. Mehtap KILIÇ EREN								

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	NCBI pubmed and recent medical publications
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Cancer biology
2	Theoretical	Epidemiology of Cancer
3	Theoretical	Cancer Genetics
4	Theoretical	Cell cycle control
5	Theoretical	Oncogenes
6	Theoretical	Growth factors
7	Theoretical	General characteristics of neoplastic cell
8	Intermediate Exam	Midterm
9	Theoretical	Malignant transformation of cell
10	Theoretical	Mutation accumulation theory of cancer
11	Theoretical	Neoplastic cell and microenvironment
12	Theoretical	Altering cellular functions during carcinogenesis
13	Theoretical	Cell surface receptors and cell signaling
14	Theoretical	Cancer metabolism
15	Final Exam	Final Exam

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	7	2	117
Midterm Examination	1	1	1	2
Final Examination	1	2	2	4
Total Workload (Hours)				123
[Total Workload (Hours) / 25*] = ECTS				5

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	1. Learning current medical biology topics
2	2. Learning cancer biology at molecular level
3	Improving research abilities to learn about recent developments
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	3	2	3
P2	1	1	1	2	1
P3	1	1	1	2	1
P4	1	1	1	3	1
P5	3	3	5	5	5

