



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biology of Cancer							
Course Code		BİO624		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	172 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Definition of cancer, Reasons for the emergence of cancer, advanced methods used in the study of cancer, give basic information about cancer prevention							
Course Content		Description of cancer emergence, advanced methods used in the study of cancer and cancer prevention							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	A.N.BOZCUK (2005),Genetik, Genişletilmiş 2. Baskı, Palme Yayıncılık
2	World cancer Research Fund in Association with American Institute for Cancer Research (1997).Food, nutrition and the prevention of cancer
3	http://www.fhcrc.org/science/education/courses/cancer_course/basic/molecular/
4	http://employees.oneonta.edu/bachman/cancer/207lecturesFall2005.htm

Week	Weekly Detailed Course Contents	
1	Theoretical	What is cancer, the definition of cancer
2	Theoretical	Genetic changes in cancer cells
3	Theoretical	Properties of tumor cells
4	Theoretical	Cancer studies using cell cultures
5	Theoretical	RNA-containing retroviruses, human tumor viruses,
6	Theoretical	Chemical carcinogenes
7	Theoretical	Radiation and carcinogenicity
8	Theoretical	Carcinogenicity test methods
9	Intermediate Exam	Midterm exam
10	Theoretical	The role of cellular oncogenes on carcinogenicity
11	Theoretical	The causes of cancer
12	Theoretical	Human cancer cell type
13	Theoretical	New methods of treatment of cancer, recent studies
14	Theoretical	Nutrition and Cancer Prevention
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	3	2	75
Assignment	5	8	0	40
Term Project	1	20	0	20
Midterm Examination	1	15	1	16
Final Examination	1	20	1	21
Total Workload (Hours)				172
[Total Workload (Hours) / 25*] = ECTS				7

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Learning what is cancer
2	Learning genetic changes in cancer cells
3	Learning about the properties of cancer cells
4	Learning the causes of cancer
5	Learning the relationship between diet and cancer

Programme Outcomes (Biology Doctorate)

1	To have enough scientific background knowledge towards a specific study and research area
2	To have an ability to identify, evaluate and develop a solution for a problem on biological aspects
3	To be able to evaluate scientific observations and results of experiments using statistical analysis methods
4	To have basic skills in areas related to field of biological studies
5	To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies
6	To have knowledge of technology and use of methods and means used in biological researches
7	To have an ethical understanding which will be a guide for their investigations and publications
8	For PhD; to have European Language Portfolio C1 general level language skill
9	To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments
10	To be able to detect and evaluate economic and social impacts of an own original research results
11	To be equipped with ability of carrying out independent study in biological field
12	To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge
13	To be able to develop new approaches or adaptations to be used in solving scientific and biological problems
14	To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation
15	To have abilities and experience to create new search area through inspiration gained from subject searched

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	4	4	4	4	4
P2	4	4	4	4	4
P4	4	3	3	4	4
P5				3	4
P7	3				
P9		3	3		
P10	4	4		4	4

