



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Cell Biology							
Course Code		AN002		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Cell organelles and teaching. Explaining the basic functions of the cell and tasks.							
Course Content		History of Cell Biology, Structure of the cell, prokaryotic and eukaryotic cells, the cell's biochemical structure, biological structures, Inspection Tools, Basic Building Units in Biological Systems, Cell Membrane, alterations in the cell membrane, the cell interior of the membrane system and the cytoplasm, the Golgi complex, mitochondria, Peroxisome, I glyoxysomes, hydrogenosomes and Glikozom are plastids and chloroplasts, ribosomes, lysosomes, centrioles, nucleus and nucleolus, chromosomes and Cell Division							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Ins. Adem KESKİN, Ins. Aslı ÇANAKÇI							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Molecular Cell Biology - Palme Yayınevi
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Week	Weekly Detailed Course Contents	
1	Theoretical	The general structure of the cell, prokaryotic and eukaryotic cells
2	Theoretical	Biochemical Cell Structure
3	Theoretical	Basic Structure Units in Biological Systems
4	Theoretical	Cell membrane
5	Theoretical	Variations In The Cell
6	Theoretical	Inside the cell membrane and cytoplasm System
7	Theoretical	Golgi Complex, the mitokodr
8	Intermediate Exam	Midterm
9	Theoretical	Peroxisome glyoxysomes I, and Glikozom on hydrogenosomes
10	Theoretical	Plastids and chloroplasts
11	Theoretical	ribosomes
12	Theoretical	Ribosomes Protein synthesis
13	Theoretical	lysosomes
14	Theoretical	Sentriol, Nucleus and Nucleolus
15	Theoretical	Chromosomes and Cell Division

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Midterm Examination	1	2	1	3
Final Examination	1	2	1	3
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Explanation of the cell's basic functions and tasks
2	Explaining the cell cycle



3	learn the cell skeleton
4	learning the structure of the cell membrane
5	to know the organelles in the cell

Programme Outcomes (Medical Imaging Techniques)

1	To be able to get information the working principles of Radiology, Nuclear Medicine and Radiotherapy devices, and distinguish their components, use these devices in accordance with operating instructions.
2	To be able to perform the procedures in accordance with the examination of Radiology and Nuclear Medicine imaging .
3	To be able to apply the radiotherapy treatment, planned by radiation physicist with instruction of radiotherapist.
4	To be able to develop and perform the film printing of the images that obtained by imaging techniques of Radiology, Nuclear Medicine
5	To be able to evaluate the images that obtained by imaging techniques of Radiology, Nuclear Medicine in terms of radiographic quality and takes the necessary measures.
6	To be able to know the medical and radiologic terminology, and pronounce and use them correctly
7	To be able to take the necessary measures in accordance with the rules of Radiation safety and protection from radiation, and apply them.
8	To be able to distinguish the anatomical structures on images, obtained by the conventional and cross-sectional imaging techniques of Radiology, Nuclear medicine.
9	To be able to communicate well with patient, their family and the hospital staff.
10	To be able to move with own professional duties, powers and responsibilities of the consciousness and apply the rules of professional ethics.
11	To be able to adapt to a multi-disciplinary team work.
12	To be able to have a basic knowledge of human physiology.
13	To be able to distinguish anatomical structures.
14	To be able to establish a cause-and-effect relationship between events.
15	To be able to have the ability of analytical thinking and problem solving.
16	To be able to apply the basic principles of first aid.
17	It has basic knowledge about human anatomy
18	Understanding the basic concepts and principles of physics while providing, in the medical field and in particular medical imaging students better understand the issues involving technical vocational courses
19	OHS 'basic concepts; work accidents, occupational diseases, occupational physicians, occupational safety specialist, İSGB, OSGB, hazard classes, risk assessment, OHS employee representatives is
20	Have basic knowledge about basic medical practices and makes applications

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P12	5	5	5	5	5

