



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 (Environmental Health)

1	They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
2	They have gained the basic concepts, skills and qualifications in the Environmental health theoretical and practical lessons. And then they can establish the connections that are necessary to protect the environment and people's health in the light of these competencies.
3	They can use the approaches and the information of basic and applied research in different disciplines. They can follow the innovations and developments in their field, and have self-development competency with the terms of the day.
4	They know and apply the analysis methods used in the evaluation of environmental factors (drinking water, waste water treatment, air pollution, meteorological data, land values, food control, radiation measurement, etc.).
5	They have a professional and ethical consciousness, and have the ability to recognize the environmental problems and also can formulate a solution to these problems. They apply the gained knowledges and skills faced in real life situations, transfers the knowledge to individuals around, and wins the life-long learning behavior.
6	They are able to use their professional knowledge in their lives and behave sensitively toward the local and global environmental problems and effectively uses to the legislation and management tools the necessary for the solution.
7	Gained the ability to adapt the changing in a positive way themselves, to understand the core values and cultures of the society which are living. Sensitive to the universal and the social values, interests of the country, have adopted the concept of sustainable development, environmentally conscious, productive, behaves aware of the ethical and professional responsibility.
8	Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
9	They gain the ecologically-based solving skills the problems and the delays that may arise in interaction with each other of living and nonliving environment. Interests of local and national, and Ecological and historical values of our country, and contribute to the protection and the development of them.
10	Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
11	Knows the value of energy for life, recognizes the types of energy, and have conscious of the importance, using and dissemination of renewable energy sources.
12	Knows the properties of information and communication technologies, and uses them in the process efficiently and professionally.
13	They aware of the democracy, rule of law, human rights, the national and universal cultural characteristics, and sensitive towards to the nature, society and people.
14	Knows the importance of Atatürk's principles and reforms, make them a way of life.
15	Uses effectively the Turkish in speaking and writing.
16	Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
17	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

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				
P2		5			
P9			5	5	5

