



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Topics In Biology I							
Course Code		ÇS006		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To inform the students who are educated in the health field about the basic biology topics such as organic compounds, cell division, substance transition.							
Course Content		Distinction between viability – inanimate, organic and inorganic molecules that form the structure of living cells and organelles, substances through the membrane and metabolism, cell division (types, seen cells and varieties, etc.).							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Genetic (2003) William S. Klug & Michael R. Cummings (Trans. Prof. Cihan Öner), Palme Publishing
2	Basic Rules of Life: Volume.1 / Part.1 (2004) Ali Demirsoy, Meteksan
3	Biology (2000) William T. Keeton, James L. Gould & Carol Grant Gould (Trans. Prof. Ali Demirsoy, Prof. İsmail Türkan & Prof. Ertunç Gündüz) Palme publishing

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of Biology, related science branches and its working areas.
2	Theoretical	Differences between the live and lifeless.
3	Theoretical	Basic molecules involved in the structure of living things (inorganic).
4	Theoretical	Basic molecules involved in the structure of living things (organic).
5	Theoretical	Basic molecules involved in the structure of living things (organic).
6	Theoretical	Cell theory, cell variety and structure of the cell.
7	Theoretical	Midterm
8	Theoretical	Structure of the cell membrane and substances through the membrane.
9	Theoretical	Endoplasmic reticulum, Lysosome and Golgi apparatus.
10	Theoretical	Centrosome, Ribosome, Vacuole, Peroxisome.
11	Theoretical	Mitochondria, plastids and endosymbiosis theory.
12	Theoretical	The cell nucleus and its' role in the cell division, and cell cycle.
13	Theoretical	Bacterial Asexual reproduction (Binary fission) and mitosis.
14	Theoretical	Meiosis cell division.
15	Theoretical	Metabolism and Homeostasis.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	3	5	2	21
Midterm Examination	1	10	1	11
Final Examination	1	14	1	15
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Knows the molecules that make up the structure of living things.
2	Knows the structure, division, feature and various of the cells.
3	Knows the current basic rules of the substance transition in the cell membrane and the metabolism.
4	Knows the basic Latin concepts.
5	Knows and defines to the cell divisions.

Programme Outcomes (Anesthesia)

1	To be able to recall basic knowledge about human anatomy
2	To be able to recall the knowledge about Ataturk's principles and the history of Turkish Revolution
3	To be able to recall the knowledge about ethical and moral values
4	To be able to recall the knowledge of Turkish grammar and be able to use it
5	To be able to communicate effectively with patient, their family, and own team
6	To be able to control, use, and maintain the anesthesia machines
7	To be able to recall the information about anesthesia application in the system diseases
8	To be able to recall the issues that needed to be considered in follow-up of patients in intensive care.
9	To be able to make the patients' care in intensive care
10	To be able to apply the cardiopulmonary resuscitation.
11	To be able to apply the drug, liquid and blood to the patient.
12	To be able to apply nasogastric tube to the patient and to aspirate.
13	To be able to assist the implementation of general anesthesia to patient.
14	To be able to recall the drugs used in general and regional anesthesia and learn to use them safely.
15	PO15. Can help during the maintenance, ending and post anaesthesia process.
16	Can help the practices of anesthesia and sedation outside the operation room.
17	Can communicate at the basic level of a foreign language and use this language in his job.
18	Be able to communicate at a basic level in a foreign language and be able to use this language in professional fields
19	To have the appropriate knowledge of basic 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	4	4	4	4	4
P2	3	3	3	3	3
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	2	2	2	2	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	1	1	1	1	1
P11	1	1	1	1	1
P12	1	1	1	1	1
P13	1	1	1	1	1
P14	1	1	1	1	1
P15	1	1	1	1	1
P16	1	1	1	1	1
P17	1	1	1	1	1
P18	3	3	3	5	4

