

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Basic Topics In Biology I										
Course Code	ÇS006	Couse	Level	Short Cycle (A	Short Cycle (Associate's Degree)					
ECTS Credit 3	Workload 75 (He	ours) Theory	2	Practice	Practice 0		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.							as			
Course Content Distinction between viability cells and organelles, substa and varieties, etc.).										
Work Placement N/A										
Planned Learning Activities and Teaching Methods			ation (Presen	tation), Discussion	on, Case St	udy, Individual Stud	dy			
Name of Lecturer(s) Ins. Tuğçe OKTAV										

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading Genetic (2003) William S. Klug & Michael R. Cummings (Trans. Prof. Cihan Öner), Palme Publising Basic Rules of Lifei Volume.1 / Part.1 (2004) Ali Demirsoy, Meteksan 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 Cour	se 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	Cell theory, cell variety and structure of the cell.				
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.				

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)						
[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 (Dialysis)

- To be able to comprehend the duties and responsibility of dialysis technicians. To be able to work in a team with members of other health professions.
- 2 To be able to acquire a general knowledge of human anatomy, physiology and biochemistry
- To be able to gain knowledge of blood-borne infectious diseases, especially infectious diseases such as hepatitis and universal prevention methods
- To be able to have knowledge of blood-borne infectious diseases, especially infectious diseases such as hepatitis and universal prevention methods
- 5 To be able to recognize hemodialysis machine, and have knowledge and skills will be used it during operation of dialysis
- To be able to have the knowledge of application on peritoneal dialysis and skills be able to train patient on this.
- 7 To be able to acquire dialysate characteristics, have necessary skills on preparation and application
- ⁸ To be able to gain the knowledge and skills on the basic principles of water treatment, application methods, and control of purified water as a level of practitioner
- To be able to comprehend the principles of patient care, complications during dialysis operation what patients may be encounter and perform necessary knowledge and skills to take necessary measures to protect patient from these complications.
- 10 To be able to gain knowledge and equipment related to educating on problems that the long-term dialysis patients may have.
- To be able to understand periodic examinations during the follw up dialysis patients and recognize pathologies in the early period, and have the knowledge and skills to take necessary precautions in time
- To be able to have the knowledge of the dialysis patients, physiological, social and psychological problems, and perform necessary support skills on these issues for the patient
- In general to be able to comprehend the knowledge of, drugs, dosage, side effects, and toxic effects, routes of administration of drugs and drug use in patients with chronic renal failure
- To be able to acquire a high level knowledge of fluid and electrolyte problems with general issues nephrology, acid-base balance disorder, nephrology and urology kidney disease, chronic and acute renal failure.
- To be able to comprehend the methods of diagnosis and treatment of diseases of the system, and have knowledge of fighting and protecting from especially problems that can be seen in dialysis patients as level of practitioner and getting patient compliance.
- To be able to have knowledge of statistics and research methods as a level of following the developments, monitoring and interpreting scientific publications.
- 17 To be able to gain the knowledge of foreign language as a level of communicating and following developments.
- To be able to be willing to self-improvement as an individual committed to the principles and reforms of Atatürk and keeping on the some of the rules of social life, customs and traditions, depending on the interests of the country on their own interests as a member of society,

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	3	3	3	3	3
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	2	2	2	2	2
P5	2	2	2	2	2
P6	1	1	1	1	1
P7	2	2	2	2	2
P8	3	3	3	3	3
P9	2	2	2	2	2
P10	3	3	3	3	3
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	2	2	2	2	2



P18 4 4 4 4 4

