



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biochemistry							
Course Code		TGT157		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	1	Workload	30 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim, proteins, carbohydrates, fats, enzymes, hormones, vitamins, and deficiencies in giving information about the type of disease which occurs.							
Course Content		The metabolism of the organism, enzymes, hormones, vitamins and minerals, nucleotides metabolism, and molecular aspects of inherited diseases, laboratory tests.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Nazan ÖZTÜRK							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	The Book of Internal Medicine Nursing
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Biochemistry. The structure of the molecules that make up living
2	Theoretical	Cell structure, membrane transport
3	Theoretical	Protein structure and general properties
4	Theoretical	Protein metabolism
5	Theoretical	Structure and general properties of carbohydrates
6	Theoretical	Carbohydrate metabolism
7	Theoretical	Lipid structure and general properties
8	Theoretical	Lipid metabolism
9	Theoretical	Structure and general properties of enzymes
10	Theoretical	The role of enzymes in clinical diagnosis and classification
11	Theoretical	Hormones structure, properties and classification
12	Theoretical	The collection of laboratory data; interpretation of laboratory data
13	Theoretical	Body fluids and their physical properties
14	Theoretical	Body fluids and their physical properties
15	Theoretical	Review and year-end evaluation

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	1	0	1
Final Examination	1	1	0	1
Total Workload (Hours)				30
[Total Workload (Hours) / 25*] = ECTS				1

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Protein, carbohydrates, lipids and oils, such as information about the metabolism of the organism
2	Enzymes, hormones, vitamins and minerals understands the importance of.
3	Diseases caused by lack of enzymes knows.
4	Kidney, liver function tests, hepatitis tests etc can interpret.



5	Have information about protein, carbohydrate, lipid metabolism diseases
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Programme Outcomes (Medical Imaging Techniques)

1	THE ANATOMICAL STRUCTURE
2	HUMAN PHYSIOLOGY
3	APPLY FIRST AID FOR PATIENTS OR INJURIES
4	MAKING RADIOGRAPHY AND FILM BATHROOM, PRINTING PROCESSES
5	MAKING FLOROSCOPIC IMAGING
6	MAKING THE MAMOGRAPHY TEST
7	DOING ANGIOGRAPHY
8	MAKING MAGNETIC RESONANCE IMAGING (MRI)
9	MAKING COMPUTERIZED TOMOGRAPHY (CT) ANALYSIS
10	DOING THE BONE MINERAL DANCEITOMETER (DEXA)
11	ULTRASONOGRAPHY (USG)
12	GAMA CAMERA IMAGING
13	RADIOTHERAPY SIMULATION AND APPLICATION
14	RADIATION SAFETY AND RADIATION PROTECTION
15	MAKING BUSINESS ORGANIZATION AND PROVIDING PROFESSIONAL DEVELOPMENT
16	KEEPING RADIOLOGICAL ANATOMY
17	KEEPING MEDICAL TERMS
18	To be able to use modern Turkish language knowledge and language skills.
19	To have knowledge about Atatürk's Principles and Revolution History
20	To communicate at a basic level in a foreign language
21	Knows cancer and its types. Know what needs to be done to prevent cancer
22	To increase student's awareness of gender equality
23	To have information about clinical biochemistry
24	Knows the structure of proteins, carbohydrates and fats
25	To know family planning methods
26	To obey occupational ethic principals
27	To know occupational ethics
28	Understand the importance of teamwork
29	The organizational chart of the institution will be able to understand.
30	Will understand the importance of record keeping.
31	To know the ethical dilemmas in health
32	TTTo gain educational and exploratory knowledge about control and protection against infectious diseases
33	To evaluate the general condition of the patient or the injured to take the initiative
34	To know the indications and contraindications of contrast agents
35	To be able to use and maintain the right communication skills with patients and relatives
36	To be able to communicate with colleagues, patient and patient relatives at therapeutic level
37	To evaluate the behavior of patients and their relatives
39	To have general information about health system
40	To learn the rights and obligations of health workers
41	Ability to gain theoretical knowledge about disaster recovery
42	To gain practical knowledge about disaster recovery and to be able to use them in accordance with ethical principles
43	To be able to explain the concepts related to substance abuse
44	Identify the needs of individuals with substance addiction
45	Working organization
46	Prepare promotional material with ready template
47	To be able to prepare personal web site
48	Knows pharmacological agents. know how to apply the drugs according to the indications and contraindications
49	To have knowledge about the effects of radiation on environment and human health.
50	Knows the concepts of quality standards, quality, standardization, standards and accreditation in health.
51	To know the rules of ergonomics
52	To learn the rules of behavior in social and business life



53	Ensuring the development of social sensitivity levels
54	To use their personal knowledge, skills and experiences for the benefit of the society as a team
55	Will be able to apply the basic tasks to use the operating system
56	Demonstrate behavior by understanding the information given about health.
57	Know the learning and teaching methods
58	Will have the ability to prepare educational material and conduct effective training.

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

	L1	L2	L3	L4	L5
P23			3	5	5
P24	5	3			

