

TOROS ÜNİVERSİTESİ

Vocational School
Medical Imaging Techniques

Course Information

PHYSIOLOGY					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TGT103	Fall	2	0	2	2

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lec. Zehra Gül YAŞAR
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	Physiology aims to teach the basic mechanisms of all organs and systems and the regulation of these things starting from the cell, which is the basic building stone of the human organism. It aims to teach the mechanisms of human organism to work together and in harmony with each other to maintain homeostasis in changing internal and external conditions and to gain the authority to look at the organism as a whole. By teaching all the basic physiological mechanisms in the human organism, it aims to be the indispensable basis for the learners to learn the mechanisms of diseases.
Contents of the Course	Biological control systems: homeostatic mechanisms and cellular transport (membrane transport, transport mechanisms), neural control mechanisms (membrane potentials, diffusion); Central nervous system; Hormonal control mechanisms; Skeletal muscle system; Coordinated body functions: blood circulation system, respiration, kidneys, digestive system, growth and reproduction, body defense mechanisms.

Learning Outcomes of Course

#	Learning Outcomes
1	Gain information about the realization, maintenance and regulation of cell processing systems.
2	Describes excitable tissues, muscles, and electrochemical events.
3	Physiology of the nervous system (central and peripheral nervous system), brain and medulla spinal cord.
4	The endocrine system discloses physiology and hormones.
5	Urinary system physiology; Homeostasis, fluid-electrolyte and acid-base regulation.
6	Blood physiology; Blood cells, blood groups, coagulation and fibrinolytic system.
7	Cardiovascular physiology; Heart and circulatory control, ECG.
8	The respiratory system defines physiology.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to physiology, cell physiology	Lecture
2	Introduction to physiology, cell physiology	Lecture, Discussion
3	Muscle physiology	Lecture
4	Blood physiology	Lecture

5	Respiratory system physiology	Lecture
6	Circulatory system physiology	Lecture
7	Digestive system physiology	Lecture
8	Mid-term exam	
9	Body fluids and kidneys	Lecture
10	Nervous system physiology	Lecture
11	Nervous system physiology	Lecture, Discussion
12	Special senses	Lecture, Discussion
13	Endocrine system physiology	Lecture, Discussion
14	Endocrine system physiology	Lecture, Discussion
15	Reproductive system physiology	Lecture, Discussion
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Tibbi Fizyoloji kitabı, Guyton & Hall, 19. ed. Textbook of Medical Physiology: (Textbook of Medical Physiology)		
2	Arthur C. Guyton and John E. Hall; Physiology of the Human Body (Paperback) by Arthur C. Guyton		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Gain information about the realization, maintenance and regulation of cell processing systems.	3	1
2	Describes excitable tissues, muscles, and electrochemical events.	3	1
3	Physiology of the nervous system (central and peripheral nervous system), brain and medulla spinal cord.	3	1
4	The endocrine system discloses physiology and hormones.	3	1
5	Urinary system physiology; Homeostasis, fluid-electrolyte and acid-base regulation.	3	1
6	Blood physiology; Blood cells, blood groups, coagulation and fibrinolytic system.	3	1,2
7	Cardiovascular physiology; Heart and circulatory control, ECG.	3	1,2
8	The respiratory system defines physiology.	3	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28

3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	1	1
				60