GAZIANTEP ISLAMIC SCIENCE AND TECHNOLOGY UNIVERSITY

GRADUATE EDUCATION INSTITUTE

COURSE CONTENT FORM

	COURSE INFORMATION					
Curriculum year	**Course name**	*Code*	*Semester*	*T+U Clock*	*Credit*	*ECTS*
	CIRCULATION SYSTEM, HISTOLOGY AND DEVELOPMENT OF BLOOD AND LYMPORETICULAR ORGANS		I	3+2	4	6

Language of the Course	Turkish
Course Level	Master's Degree
Department/Program	Histology Embryology
Education Type	formal
Type of Course	Optional
Prerequisite Courses	no
Department/Program coordinator	Prof. Dr. Mehmet Yüncü
Course Supervisor(s)	Asst. Prof. Çiğdem Karaca
Course Assistants	Asst. Prof. Ayşegül Burçin Yıldırım Asst. Prof. Mustafa Öztatlıcı
Course Objectives	Students taking the course should have knowledge about the histology and development of the circulatory system, blood and lymphoreticular organs.
Course Content	Cardiac development and anomalies, heart histology; arteries, veins, arterio-venous anastomoses, portal system and its locations, lymphatic system and lymphatic vessels, blood tissue, hemopoiesis, lymph nodes, tonsilla, thymus, spleen, bone marrow histology
Teaching-Learning Methods and Techniques Used in the Course	Face-to-face education, homework, presentation-seminar, quizzes, midterm exams, Laboratory, Research
Course Internship Status	No

Course Learning Outcomes
1. To have general information about the histology of the circulatory system, blood and lymphoreticular organs
2. Explain the development of the circulatory system, blood and lymphoreticular organs.
3. Explain the histological structure of the tissues forming the circulatory system, blood and lymphoreticular organs.
4. Will be able to explain the cell types and properties of the circulatory system, blood and lymphoreticular organs.
5. Will be able to explain anomalies of circulatory system, blood and lymphoreticular organs.

COURSE FLOW	
Week	**Topics**
1	heart histology
2	Histology of arteries and veins
3	Arteriovenous anastomoses and portal system histology
4	lymphatic vessels histology
5	Examination of Cardiovascular Histology Preparations (Laboratory)
6	blood tissue histology
7	Histology of blood tissue shaped elements
8	Article Hour - Seminar
9	Hematopoiesis
10	Examination of blood tissue preparations (Laboratory)
11	Lymph Node histology
12	Tonsilla and thymus histology
13	Spleen and bone marrow histology
14	Examination of Lymphoid System Preparations (Laboratory)
15	general evaluation

RESOURCES
- Ross M.H, Pawlina W: Histology, A Text and Atlas. Lippincott Williams and Wilkins. 2011 - Junqueira L.C: Basic Histology. McGraw-Hill Medical. 2013 - Mills S.E: Histology for Pathologists. Lippincott Williams and Wilkins. 2012 - Fawcett D.W: A Textbook of Histology. CRC Press. 1998 - Kierszenbaum A: Histology and Cell Biology. Elsevier-Mosby. 2011 -Yüncü M: Histobul. Çukurova Nobel Medicine Bookstore, 2014 -Eşrefoğlu Mukaddes, Basic Histology, Ema Medical Bookstore,2022 -Eşrefoğlu Mukaddes Histology Atlas, Ema Medical Bookstore,2022

ASSESSMENT SYSTEM		
SEMESTER STUDIES	**COUNT**	**PERCENTAGE OF CONTRIBUTION**
Midterm	1	%40
Quiz		
Homework		
Continue		
Seminar		
Application	1	%10
Course Specific Internship (if applicable)		
Project		
Workshop		
Presentation		
Semester final exam	1	%50
Total	3	%100
Contribution of Midterm Studies to Success Grade		
The Contribution of the Final Exam to the Success Grade		
Total		

ECTS / WORKLOAD CHART			
Activity	**COUNTS**	**Time (Hour)**	**Total Workload (Hour)**
Course Duration (Including the exam week: 15x total course hours)	*15*	*3*	*45*
Out of Class Study Time (Pre-study, reinforcement)	*15*	*2*	*30*
Homework	*2*	*10*	*20*
Seminar	*1*	*10*	*10*
Presentation	*3*	*5*	*15*
Application	*15*	*2*	*30*
laboratuvar	*15*	*2*	*30*
Course Specific Internship (if applicable)			
Project			
Workshop			
Other (…….)			
Midterm	*1*	*1*	*1*
Quiz			
Semester final exam	*1*	*1*	*1*
Total Workload			
Total Workload / 30(s)			*182*
ECTS Credits of the Course			*6*

ASSOCIATION OF COURSE LEARNING OUTCOMES WITH PROGRAM OUTCOMES

No.	Program Learning Outcomes
1	Have general knowledge about the human body
2	Have detailed information about the histological structures of human tissues and organs.
3	Learns histological and histochemical techniques
4	Have detailed information about general human embryology.
5	Learn to use research lab tools and materials
6	Improves scientific article reading and evaluation proficiency
7	Can make histology laboratory applications to undergraduate students
8	Gains a general vision about basic medical sciences
9	Provides the necessary knowledge to participate in the doctoral program
10	Provides the competence to be a researcher in multidisciplinary research

Learning Outcomes	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**
LO1.	4	5	2	2	3	4	5	5	5	5
LO2.	4	2	2	5	3	3	5	5	5	5
LO3.	4	5	4	3	4	4	5	5	5	5
LO4.	4	5	3	4	4	3	5	5	5	5
LO5.	4	5	2	3	3	4	5	5	5	5

LO: Learning Outcomes PO: Program Outcomes					
Contribution Level	1. Very low	2. Low	3. moderate	4. High	5. Very High