

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
FUNCTIONAL MORPHOLOGY	MKBD1121940	Fall Semester	3+0	3	8
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Third Cycle (Doctorate Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Esra Nur YİĞİT				
Name of Lecturer(s)	Prof.Dr. Bayram Ufuk ŞAKUL, Prof.Dr. Alper ATASEVER, Prof.Dr. İlknur KESKİN, Assist.Prof. Deniz DURALI, Prof.Dr. Cafer MARANGOZ, Assist.Prof. Esra Nur YİĞİT				
Assistant(s)					
Aim	To understand the development, structures and functions of all body systems in the vicinity of anatomy, physiology and histology				
Course Content	This course contains; central nervous system anatomy, Central nervous system physiology, Central nervous system histology and embryology, Respiratory system anatomy, Respiratory system physiology, Respiratory system histology and embryology, Digestive system anatomy, Digestive system physiology, Gastrointestinal system histology and embryology, Cardiovascular system anatomy, Cardiovascular system physiology, Cardiovascular system histology and embryology, Urogenital system anatomy and physiology, Urogenital system histology and embryology.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. to explain Development of the central nervous system, anatomical structures and functional properties.			11, 13, 5, 9	A, D	
1.1. Explains the anatomical structures of central nervous system			11, 13, 5, 9	A, D	
1.2. Explains the embryology of nervous system development			11, 13, 5, 9	A, D	
1.3. Explains the physiological structure of central nervous system			11, 13, 5, 9	A, D	
2. to define the embryological development of the digestive system, the anatomical structures and the physiological mechanism.			11, 13, 5, 9	A, D	
2.1. Defines the anatomical structures of digestive system			11, 13, 5, 9	A, D	
2.2. Explains the embryology of digestive system			11, 13, 5, 9	A, D	
2.3. Explains the physiological mechanism of the digestive system			11, 13, 5, 9	A, D	
3. to explain Development of the urinary system, anatomical structures and functional properties.			11, 13, 5, 9	A, D	
3.1. Explains the anatomical structures of Urinary system			11, 13, 5, 9	A, D	
3.2. Explains the embryology of urinary system.			11, 13, 5, 9	A, D	
3.3. Explains the physiological mechanism of the Urogenital system			11, 13, 5, 9	A, D	
Teaching Methods	11: Demonstration Method, 13: Case Study Method, 5: Cooperative Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	central nervous system anatomy	Anatomi-Kaplan Arıcı S.211-352			
2	Central nervous system physiology	Klinik Anlatımlı Tıbbi Fizyoloji, Prof. Dr. Halis Köylü S.45-84			
3	Central nervous system histology and embryology	Anatomi-Kaplan Arıcı S.211-352			
4	Respiratory system anatomy	Ozan Anatomi S.219-250			
5	Respiratory system physiology	Klinik Anlatımlı Tıbbi Fizyoloji, Prof. Dr. Halis Köylü S.235-282			
6	Respiratory system histology and embryology	Histoloji ve Embriyoloji- Doç. Dr. Şule Ayla S.248-250, S.94-103			
7	Digestive system anatomy	Ozan Anatomi S.349-420			
8	Digestive system physiology	Klinik Anlatımlı Tıbbi Fizyoloji, Prof. Dr. Halis Köylü S.331-382			
9	Gastrointestinal system histology and embryology	Histoloji ve Embriyoloji- Doç. Dr. Şule Ayla S.124-143, 242-247			
10	Cardiovascular system anatomy	Ozan Anatomi S.251-348			
11	Cardiovascular system physiology	Klinik Anlatımlı Tıbbi Fizyoloji, Prof. Dr. Halis Köylü S.179-216			
12	Cardiovascular system histology and embryology	Histoloji ve Embriyoloji- Doç. Dr. Şule Ayla S.73-82, 222-233			
13	Urogenital system anatomy and physiology	Ozan Anatomi S.421-458			
14	Urogenital system histology and embryology	Histoloji ve Embriyoloji- Doç. Dr. Şule Ayla S.254-263			
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources
-Gray's Anatomy, Susan Standring et. al. - Atlas of Human Anatomy, FH Netter - Functional Neuroanatomy, Prof. Dr. Doğan Taner - Anatomy I-II, Prof. Dr. Kaplan Arıncı, Prof. Dr. Alaittin Elhan.