

<b>COURSE DESCRIPTION FORM</b>	
<b>Course Code and Name</b>	<b>FZY 200 Physiology II</b>
<b>Course Semester</b>	3-4
<b>Catalogue Data of the Course (Course Content)</b>	Central Nervous System, Cardiovascular System, Respiratory System, Digestive System and Metabolism, Urinary System, Endocrine System, Genital System
<b>Course Textbooks</b>	Rhoades Medical Physiology, LWW, 4th Ed. 2012 Ganong's Review of Medical Physiology, 24th Ed. LANGE 2012 Linda S. Contanzo, Physiology, LWW, 5th ed., Elsevier 2014 Berne & Levy Physiology, 7th Updated Edition, Elsevier 2018 Human Physiology Book, 2021
<b>Supplementary Textbooks</b>	
<b>Credit (ECTS)</b>	5
<b>Prerequisites for the Course (Attendance Requirements)</b>	Attendance is mandatory. Before taking these courses, the student must have taken Physiology 1, Histology 1 and General Anatomy 1 courses.
<b>Course Type</b>	Professional/ Technical
<b>Language of Instruction</b>	Turkish
<b>Course Objectives</b>	To learn the functions of organs and systems, the mechanisms of interaction with each other and the changes in function observed in clinical-pathological conditions.
<b>Course Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. The student should know the physiology and physiopathology of the central nervous system (motor and sensory system).</li> <li>2. The student should know the physiology and physiopathology of the respiratory system.</li> <li>3. The student should know the physiology and physiopathology of the digestive system and metabolism.</li> <li>4. The student should know the physiology and physiopathology of the heart and circulatory system.</li> <li>5. The student should know the physiology and physiopathology of the excretory system.</li> <li>6. The student should know the physiology and physiopathology of the endocrine system.</li> <li>7. The student should know the physiology and physiopathology of the genital system.</li> </ol>
<b>Instruction Method (Face-to-face, Distance education etc.)</b>	Lessons are given in an amphitheater (with the support of projector, computer, animation, etc.). Face-to-face lecture is carried out in the form of mutual discussion (question and answer).
<b>Weekly Schedule of the Course</b>	<p>Week 1: Cardiac Physiology, general characteristics of the heart muscle, conduction system of the heart, its excitation, cardiac cycle</p> <p>Week 2: Control of heart work, diseases</p> <p>Week 3: Circulatory system physiology</p> <p>Week 4: Circulatory system physiology</p> <p>Week 5: Respiratory System Physiology (Respiratory system structure and functions)</p> <p>Week 6: Ventilation – Perfusion – Transport of Blood Gases</p> <p>Week 7: Respiratory Control – Diseases</p> <p>Week 8: Digestive System Physiology (General principles of the digestive system, regulation of motility, chewing and salivation, motor and secretory functions of the stomach)</p> <p>Week 9: Exocrine secretion of the pancreas, liver functions and bile secretion</p> <p>Week 10: Secretion and absorption in the small intestines, functions of the large intestine</p> <p>Week 11: Metabolism</p> <p>Week 12: An overview</p> <p>Week 13: Excretory system physiology (Properties of the excretory system, renin-angiotensin system, glomerular filtration, tubular reabsorption)</p>

	Week 14: Concentrated and diluted urine excretion Week 15: Clearance, micturition Week 16: Diuretics and effect mechanisms Week 17: Fluid-electrolyte balance Week 18: Acid-Base balance Week 19: Central nervous system physiology (Motor part) Week 20: Central nervous system physiology (Motor part) Week 21: Central nervous system physiology (Sensory part) Week 22: Central nervous system physiology (Sensory part) Week 23: Central nervous system physiology (Sensory part) Week 24: Endocrine system physiology (General characteristics of hormones, mechanisms of action of hormones, pituitary and hypothalamus hormones) Week 25: Thyroid and adrenal gland hormones Week 26: Pancreatic hormones, calcium metabolism Week 27: Other organs with endocrine function (heart, pineal, kidney) Week 28: Laboratory			
<b>Teaching Activities</b> <i>(The time spent for the activities listed here will determine the amount of credit required)</i>	Weekly theoretical course hours: 28 weeks / 3 hours Weekly practical course hours Reading activities: 24 weeks / 1 hour Internet search and library work: Designing and implementing materials: Making a report: Preparing and making presentations: Midterm and revision for midterm: 2 weeks / 4 hours Final exam and revision for final exam: 1 week / 9 hours			
<b>Assessment Criteria</b>		<b>Number(s)</b>	<b>Weight (%)</b>	
	Midterm exam	2	60	
	Assignment			
	Application			
	Project			
	Practice			
	Quiz			
	Final exam	1	40	
Total	3	100		
<b>Workload of the Course</b>		<b>Number of Weeks</b>	<b>Duration (Weekly Hour)</b>	<b>End of Semester Total Workload</b>
	Weekly theoretical course hours	28	3	84
	Weekly practical course hours			
	Reading activities	24	1	24
	Internet search and library work			
	Designing and implementing materials			
	Making a report			
	Preparing and making presentations			
	Midterm and revision for midterm	2	4	8
	Final exam and revision for final exam	1	9	9
	Total workload			125
	Total workload/ 25			5,0
Course Credit (ECTS)			5	

Contribution Level between Course Outcomes and Program Outcomes	No	Program Outcomes	1	2	3	4	5
	1	Knows the normal structure and functions of the human body and specifically the structures and teeth in the mouth area on the basis of cells, tissues, organs and systems, and their interactions with each other.				x	
	2	Defines the causes, formation mechanisms, findings, structural and functional disorders of oral, dental and jaw diseases, and how they affect the organism.				x	
	3	At a specified level, knows, comprehends, associates and evaluates the symptoms, findings, diseases, conditions and professional practices in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program.	x				
	4	Knows how to reach the best current scientific evidence, evaluate its reliability and validity in line with personal learning needs.		x			
	5	Knows the legislation on professional legal responsibilities, deontology and ethical principles.			x		
	6	Knows and makes professional practices in the national core education program of dentistry and Gazi University Faculty of Dentistry Extended Education Program at a determined level.			x		
	7	Carries out diagnosis, treatment and follow-up processes by prioritizing evidence-based practice, critical thinking and ethical principles.			x		
	8	S/he is aware of own limitations, sets personal learning goals to support own professional development, and directs the patient to the appropriate center when necessary.	x				
	9	Knows the incidence of diseases in the mouth, teeth and jaws in society, contributes to the prevention and reduction.					
	10	While practicing their profession independently, they act in accordance with the laws, regulations, legislation and ethical principles related to own duties and responsibilities.					
	11	Has teamwork and leadership skills, becomes a role model to colleagues and society.					
	12	Plans personal professional development, executes it with the principle of lifelong learning		x			
	13	Establishes effective written and verbal communication with the patient, patient relatives, other health personnel, society, relevant sectors and the media.			x		
	14	Follows the innovations in the profession by using foreign language and information communication technologies.	x				
<b>Lecturer(s) and Contact Information</b>	Specialist, M.D., Pelin TÜRKKAN pelinozdemir@gazi.edu.tr						