Course Name	Code	Term	Theory (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Pathophysiology in Nursing	HEM203	3.Semester / Fall	2	0	0	5
Prerequisites	None					
Language of Instruction	Turkish					
Course Type	Compulsory					
Learning and teaching techniques of the course	Learning techniques such as lecture, discussion, question-answer, presentation, brainstorming will be used. In extraordinary situations (pandemic, etc.), it will be done synchronously through the Microsoft Teams program.					
Course responsible(s)						
Aim of the lesson	This course aims to explain the causes of changes that may occur in cells, tissues, organs and systems in disease states and the symptoms and signs that may develop in the individual with physiopathological processes.					
Learning Outcomes	1. Understands the physiopathology of the cell 2. Explains homeostasis and the response of the organism in situations that disrupt homeostasis. 3. Understands the theoretical information about the physiopathological processes of cells, tissues, organs and systems 4. Explains the clinical features caused by physiopathological processes in common acute and chronic disease states					
Course content	Introduction to Physiology and Pathology, Cell Structure and Functions, Fluid Electrolyte, Changes in Acid-Base Balance and Physiopathology of Shock, Physiopathology of Obesity, Hunger, Lipids and Atherosclerosis, Sleep Pain, Stress and Aging Physiology, General Oncology-Cancer Physiology, Immune Mechanism and Some Pathological Conditions , Endocrine System Physiology and Some Pathological Conditions, Circulatory System and Some Pathological Conditions, Ventilaston and Perfusion Dynamics and Pathological Conditions, Digestive Physiology and Some Pathological Conditions, Hematopoietic System and Some Pathological Conditions, Genitourinary System Physiology and Some Pathological Conditions, Nervous System Physiology and Some Pathological Conditions, Musculoskeletal System and Some Pathological Conditions.					
References	1. McCance KL, Huether SE. (2005). Pathophysiology The Biologic Basis For Disease in Adults and Children, Seventh Edition, Elseiver Mosby. 2. Çevikbaş U (Çev. Edt). (2002). Temel Patoloji, Kumar V, Cortran RS., Robbins SL. Basic Pathology, Yüce Yayınları A.Ş, İstanbul. 3. Porth MC. (1998). Pathophysiolog Concepts of Altered Health States, 5th Ed., Lippincott Comp, Philadelphia 4. Guyton ve Hall Tıbbi Fizyoloji. (2017). Yeğen BÇ Alican İ, Solakoğlu Z. (Edt), Güneş Tıp Kitabevleri, 13. Baskı, İstanbul. 5. Ovayolu N, Ovayolu Ö. (Çeviri Edt.) (2016). Patofizyoloj: Pratik Bir Yaklaşım. Çukurova Nobel Tıp Kitabevi, 2. Baskı. 6..Stoller JK, Michota FA, Mandell BF. Demir AM. (Çeviri edt) Cleveland Klinik İç Hastalıkları. 5.Baskı, İstanbul: İstanbul Tıp Kitabevi. 7. Karadakovan A, Aslan FE (2011) Dahili ve Cerrahi Hastalıklarda Bakım. Nobel Tıp Kitabevi, Adana. 8. Birol L, Akdemir N. (2004) İç Hastalıkları Hemşireliği. Vehbi Koç Vakfı Yayınları, İstanbul. 9. Kumar V, Abbas A, Fousta N, Mitchell R. Robbins (2008). Basic Pathology, 8th Ed., Saunders Book Company, Philadelphia. 10. Carrier-Kohlman V. (2003). Pathophysiological Phenomena in Nursing: Human Responses to Illness, 2nd ed., WB Saunders Company, Philadelphia. 11. Aslan FE. Olgun N. Fizyopatoloji (2017) Akademisyen Kitabevi, İstanbul					

Course Outline Weekly

WEEKS	TOPICS
1. Week	Introduction to Physiology and Pathology, Cell Structure and Functions, Prostaglandins and Cytokines
2. Week	Fluid Electrolyte, Changes in Acid-Base Balance and Shock Physiopathology
3. Week	Physiopathology of Obesity, Hunger, Lipids and Atherosclerosis
4. Week	Sleep Pain, Stress and Aging Physiology
5. Week	General Oncology-Cancer Physiology, Immune Mechanism and Some Pathological Conditions
6. Week	Endocrine System Physiology and Some Pathological Conditions
7. Week	Circulatory System and Some Pathological Conditions
8. Week	**MİDTERM**
9. Week	Ventilation and Perfusion Dynamics and Pathological Conditions
10. Week	Digestive Physiology and Some Pathological Conditions
11. Week	Hematopoietic System and Some Pathological Conditions
12. Week	Genitourinary System Physiology and Some Pathological Conditions
13. Week	Nervous System Physiology and Some Pathological Conditions
14. Week	Musculoskeletal System and Some Pathological Conditions
15. Week	**AN OVERVİEW**

ECTS (Student Work-load Table)

Activities	Number	Duration	Total Work Load
Length of course	14	2	28
Laboratory			
Practice			
Field Study			
Study time outside of classroom (Free-study/Group work/Pre-study)	14	6	84
Presentation (Video recording/Poster preparation/Focus Group Interview/Questionnaire/Observation and Writing reports)	1	6	6
Seminar Preparation			
Project			
Case Study			
Role-play			
Writing articles-Make criticals			
Time to prepare for midterm exams	1	7	7
Time to prepare for final exam	1	7	7
Total Work Load (hour) / 25(h)	132/25=5,28		
Course ECTS	**5**		

Evaluation System

Workload within semester	Number	Contribution
Midterm Exam	1	%40
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If there is)		
Assignments		
Presentations and Seminars		
Projects		
Other		
Total Semester Work Load	1	%40
End-of-year Work Load		
Final Exam	1	%60
Assignments		
Practice		
Laboratory		
Total End-of-year Work Load	**1**	**%60**
TOTAL	**2**	**100**

The Relationship Between Learning Outcomes and the Program Qualifications of the Courses

Program Qualifications		Learning Outcomes			
		LO1	**LO2**	**LO3**	**LO4**
1.	Have the knowledge and skills to fulfill their professional roles and functions.	4	3	4	4
2.	Performs, evaluates and records nursing practices toward professional principles and standards.		4	5	4
3.	Practice the health care needs of the individual, family and society with a holistic approach, toward the nursing process.		5	5	5
4.	Communicates effectively with the individual, family, community and health team members.				
5.	Performs professional practices toward current scientific data by using information and maintenance technologies.		4	4	4
6.	Have a foreign language profeciency to reach scientific information and communicate effectively.				
7.	Behaves in accordance with professional, cultural and ethical values in nursing practices.				
8.	Considers the relevant laws, regulations and legislation in nursing practices.				
9.	Uses the learning-teaching and management process in nursing practices.	4	4	5	4
10.	Uses lifelong learning, problem solving, critical thinking and career planning skills to contribute to professional development.			4	5
11.	With the awareness of social responsibility, takes part in research, projects and activities in cooperation with the health team and other disciplines.			4	
12.	Contributes to the provision and development of safe and quality health care.				
Contribution to the level of proficiency: 1: Lowest**, 2:** Low/Medium**, 3:** Average**, 4:** High**, 5:** Excellent					