



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| | | | |
|--|---|---------------|---------------|
| Introduction to Clinical Science | | | TIP311 |
| AKTS 9 Credits | 3 rd year – 1 nd semester | Undergraduate | Mandatory |
| 81 hours/5 weeks | Theoric/Practice: 76 hours/ 5 hours/ 5 weeks | | Turkish |
| Period III Coordinator: Prof. Hülya GÜVEN | | | |
| Course I Coordinator: Assist. Prof. Defne GÜMÜŞ | | | |
| CONTACT | | | |
| hulya.guven@yeniuyuzyl.edu.tr | | | |
| defne.gumus@yeniuyuzyl.edu.tr | | | |
| Visiting Hours: | | | |
| Every Wednesday 12.30-13.30 p.m. | | | |

Course Objectives:

The main goal of the four-week Introduction to Clinical Sciences course is to provide an understanding of the clinical processes involving the pathophysiology, pathogenesis of diseases, cellular and genetic mechanisms, microbiological and biochemical characteristics of infectious agents, the diseases they cause, pharmacological approaches. Also mechanisms of action, and toxicities of the drugs used. Moreover, it encompasses learning about the causes, pathological characteristics of cancer development, as well as the mechanisms of action and side effects of chemotherapeutic agents used in treatment. Additionally, students will gain knowledge about basic diagnostic and imaging methods. They will learn the pathological and immunological features of tissue damage, the definition of immunopharmacology, the usage characteristics, and toxicities of drugs used in immunology. Furthermore, the course aims to instill effective communication skills required in the medical profession and to cultivate the skills and ethical attitudes necessary for professional practice.

Learning Outcomes and Sub-Skills:

Upon successfully completing this course, students will:

1. They learn holistic approach in clinical diagnosis by evaluating the anamnesis, physical examination and laboratory data of the patients, learn diagnosis and imaging methods related to diseases.
2. They grasp the fundamental pathological, biochemical molecules, and mechanisms related to diseases, along with their general characteristics and mechanisms.
3. They learn the pathological and immunological properties of tissue damage, comprehend the basic principles of the methods used in pathological diagnosis.
4. They gain knowledge about drugs affecting the immune system, their mechanisms of action, and side effects.
5. They understand the development of cancer and how to approach cancer patients.
6. They comprehend the microbial processes that cause diseases.
7. They learn diagnostic and imaging methods related to diseases.
8. They understand the importance of measurement and evaluation in the field of health.



9. Learn diseases and surgical methods in children.
10. They gain knowledge about the diagnostic and clinical approach in infectious diseases, as well as the transmission and prevention of infections.
11. They know the drugs used in the treatment of infectious diseases, drug use targets in the autacoid system, mechanisms of action, their place in the treatment and side effects.
12. Develop effective communication skills and ethical attitudes and behaviors required in the medical profession.

Brief description of the course:

Having knowledge about pathology, pathogenesis and microbial processes of diseases in the clinic together with basic diagnosis and imaging methods in adults and children.

Teaching Methods and Techniques:

Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments.

Prerequisite: None

Basic Sources:

1. Donald W. Novoy: Fizik Muayene Rehberi, Hekimler Yayın Birliği, Ankara, 2001.
2. Ertekin C, Taviloğlu K, Güloğlu R, Kurtoglu M: Travma, İstanbul Medical Yayıncılık, 2005.
3. Prof. Dr. Ergün Çil, Prof. Dr. Özlem Mehtap Bostan, Doç. Dr. Erdal Eren, Çocuklarda Öykü Alma ve Fizik Muayene, ISBN: 9786053354406, 2. Baskı, NOBEL Kitabevi, 2019.
4. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, PELİKAN Kitabevi 2024
5. Carol Mattson Porth, Çev. Ed. Prof. Dr. Mine Durusu TanrıöverUzm. Dr. Alper Sarı, Patofizyolojinin Temelleri, ISBN: 9786053558125, Palme Yayınevi, 2018
6. İç hastalıkları (semiyoloji), Ed. Abdülkadir Kaysı, 2020, 14.BASIM, ISBN; 9789758052837, Nobel Kitabevi
7. Genel Cerrahi 2 Cilt, Prof. Dr. Ertuğrul Göksoy, 2021, ISBN 9786053356288 Nobel Kitabevi.
8. GÖĞÜS HASTALIKLARI PROPEDEÖTİK, Prof. Dr. Tevfik Özlü, Prof. Dr. Akın Kaya, Prof. Dr. Mehmet Karadağ, 2019, ISBN: 9786059615327, Hacettepe Taş
9. Mulholland & Greenfield's Surgery: Scientific Principles and Practice,, Justine B. Dimick et. Al. 2021, 7. Ed. ISBN: 9781975143169 Lippincott Williams & Wilkins.
10. Temel Yenidoğan, Prof. Dr. Canan Türkyılmaz, 2021 ISBN: 9786257849173. Yayınevi: Ema Tıp Kitabevi
11. Cerrahi Patolojide Ayırıcı Tanılar: Pulmoner Patoloji, Çev. Ed. Doç. Dr. Sevgen Önder 2021, ISBN 9786059615587 Dünya Tıp Kitabevi.
12. Jinekolojik Kanserler, Ed. Asiye UZUN, 2020, ISBN 9786257106825, Akademisyen Kitabevi.



Supplementary Resources:

1. Fauci, Hauser, Jameson, Kasper, Longo, Loscalzo, Çev. Ed. Bulut Demirel, Aydın Çiftçi, Sema Avcı, Şadiye Visal Buturak, Harrison İç Hastalıkları, Cep Kitabı, ISBN: 9786053354628 Nobel Kitabevi, 2019.

Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|------|--|
| 1 | <p>Before the committees commence, the instructor provides information about the course procedures, exams, and evaluations.</p> <p>In the first committee, information is given about taking a medical history, basic examination methods, approaching the patient, and the physician's attitude in adult and pediatric internal medicine, child health and diseases, and surgery. A comprehensive approach to physical examination and clinical diagnosis is explained.</p> <p>Basic concepts in immunology are introduced, including immunological disorders and the principles of treatment, along with the drugs used. The molecular basis of cancers and the concept of metastasis are taught from a pathological perspective. In addition, definitions and characteristics of infections, pharmacological features of chemotherapeutics effective in infectious diseases, mechanisms of action, uses, and side effects of beta-lactam antibiotics are also taught.</p> |
| 2 | <p>The monitoring of growth and development in children, the importance of vaccinations, and the concept of the childhood vaccination schedule are explained.</p> <p>Pathologically, the effects of carcinogenic agents, the clinical characteristics and stages of tumors, the concept of metastasis, and childhood tumors are discussed.</p> <p>Samples examined in the medical microbiology laboratory and the considerations for proper sample submission are taught.</p> <p>Information is provided on tumor immunology and nuclear medicine.</p> <p>Pharmacologically, details are given about other antibiotics, antifungals, anthelmintic drugs, proper antibiotic usage, and drug side effects.</p> |
| 3 | <p>Hypersensitivity reactions, their types, the pharmacological properties of drugs used, and the role of endogenous substances (autacoids) are taught.</p> <p>Tumor immunity and the host defense against tumors, as well as the concepts of antineoplastic chemotherapy, general mechanisms of action, and usage characteristics, are explained.</p> <p>In pathology, the recognition of macroscopic specimens and the conditions for sending appropriate samples to microbiology laboratories are taught.</p> <p>Basic first aid and approaching a traumatized patient are also covered.</p> |
| 4 | <p>The fundamental approach to women's health and childbirth, including history-taking, is taught.</p> <p>Characteristics of surgical instruments, methods of ensuring asepsis, substances used in disinfection, and their toxicities are covered.</p> <p>Pharmacologically, the effects of histamine, angiotensin, and serotonin from autacoids, as well as the use of agonists and antagonists as drugs, are explained.</p> |
| 5 | EXAM WEEK |



EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|--------|--------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presantation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |

RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | X |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | X | | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | | X | | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | X | | | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | X | | | | |
| 6 | Can practice preventive medicine and forensic medicine | X | | | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | X | | | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | | X | | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.



AKTS (Work Table)

| Activities | Number | Duration (hour) | Total Work |
|---|---------------|------------------------|-------------------|
| Course Length (includes exam week: 8 x total course hours) | 76 | 1 | 76 |
| Laboratory | | | |
| Practises | 5 | 1 | 5 |
| Internship (if any) | | | |
| Field Study | | | |
| Out-of-class Course Study Time (Pre-study, practice) | 45 | 1 | 45 |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | | | |
| Board Exams | 1 | 4 | 4 |
| Total | 126 | | 130 |



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| Circulatory and Respiratory System Diseases | | | TIP 321 |
|---|---|---------------|----------------|
| AKTS 9 Credits | 3 rd year /1 th smester | Undergraduate | Mandatory |
| 130 hours/6 weeks | Theoric/Practice: 124 hours/ 6 hours/ 6 weeks | | Turkish |
| Period III Coordinator: Prof. Hülya GÜVEN Course II Coordinator: Prof. Gül ÖZDEMİRLER | | | |
| CONTACT: hulya.guven@yeniyuzuil.edu.tr gul.ozdemirler@yeniyuzuil.edu.tr | | | |
| Visiting Hours: Every Wednesday 12.30-13.30 p.m. | | | |

Course Objectives:

The main objective of the five-week Circulatory and Respiratory System Board is to provide students with an understanding of the pathophysiology and pathogenesis of the heart, circulatory and respiratory systems, and the importance of molecular, cellular, and genetic mechanisms in relation to clinical processes.

Moreover the aim of this course is to increase the knowledge of pharmacological properties, mechanisms of action and side effects of drugs used in the treatment of related diseases and to have knowledge about basic diagnostic and imaging methods.

Additionally, the committee teaches the clinical characteristics of immunological diseases and the clinical uses of antibiotics. It also provides insights into the history of the medical profession and aims to equip students with effective communication skills and the skills and ethical attitudes required for professional practice in the medical field.

Learning Outcomes and Sub-Skills:

Students who successfully complete this course will:

1. They learn to evaluate medical history, diagnostic methods, and examination findings related to the circulatory and respiratory systems.
2. They grasp the fundamental biochemical and molecular mechanisms of circulatory and respiratory system diseases, along with their general characteristics.
3. They understand the physiopathology, causes, and relationships of symptoms related to the circulatory and respiratory systems with other body systems.
4. They learn about diagnostic and imaging methods related to circulatory and respiratory system diseases.
5. They acquire knowledge about the microbial processes causing circulatory and respiratory system diseases.
6. They learn about lower and upper respiratory tract infectious agents and their relationships with diseases.
7. They comprehend the general characteristics and interrelations of diseases such as coronary artery disease, heart failure, diseases that can cause hypertension, acute rheumatic fever, chronic obstructive pulmonary disease, pneumonia, lung tuberculosis, and pulmonary embolism.



8. They understand the classification, pharmacokinetics, pharmacodynamics, mechanisms of action, uses in treatment, side effects, and drug interactions of drugs effective in the circulatory and respiratory systems.
9. They learn the pathology of respiratory system diseases and cancers through macroscopic and microscopic examination.
10. They explore the role of smoking and its pharmacological aspects in circulatory and respiratory system diseases.
11. They learn about circulatory and respiratory system diseases and surgical methods in adults and children.
12. They describe the physiopathology, clinical symptoms, and radiology of heart valve diseases.
13. They comprehend the pathology of endocardial, myocardial, and pericardial diseases.
14. They understand the ethics and clinical aspects of organ transplantation and donation.
15. They learn the concepts of basic and advanced life support and the importance of providing life support.
16. They gain knowledge about the development of the medical profession during the Republic era and the contemporary education system.

Brief description of the course:

Having of the knowledge about the pathophysiology, pathogenesis and microbial processes of circulatory and respiratory system diseases, basic diagnostic and imaging methods in adults and children, the properties of the drugs used in treatment and clinical information of the disease processes.

Teaching Methods and Techniques:

Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments.

Prerequisite: None

Basic Sources:

1. Hampton J: Pratik EKG, İstanbul Tıp kitabevi, 2012.
2. Enar R: Temel Kardiyoloji Kalbin Fizik Muayenesi Tekniği ve Klinik İpuçları, Nobel Kitabevi, 2012.
3. Green T , Franklin W , Tanz R: Pediatrics Pediatride Yalın Bilgiler, Nobel Tıp Kitabevi, 2008.
4. Dalar L, Süerdem M , Öztürk C , Saygı A: Göğüs Hastalıkları, İstanbul Tıp Kitabevi, 2015.
5. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, Pelikan Kitabevi 2024.
6. Carol Mattson Porth, Çev. Ed. Prof. Dr. Mine Durusu Tanrıöver, Uzm. Dr. Alper Sarı, Patofizyolojinin Temelleri, ISBN: 9786053558125, Palme Yayınevi, 2018.
7. Hepatoloji, Ed: Ender ANILIR, Zerrin ÖNAL, Duygu İBRİŞİM, 2020, ISB 9786257275392, Akademisyen Kitabevi.
8. Temel Endokrinoloji ve Diyabet, Prof.Dr. Nevin DİNÇÇAĞ, 2016, Ürün Kodu: 9786056600319, Hacettepe Taş Kitabevi.
9. İç hastalıkları (semiyoloji), Ed. Abdülkadir Kaysı, 2020, 14.BASIM, ISBN; 9789758052837, Nobel Tıp Kitabevi.
10. Genel Cerrahi 2 Cilt, Prof. Dr. Ertuğrul Göksoy, 2021, ISBN 9786053356288 Nobel Kitabevi.
11. Alerji ve İmmünoloji El Kitabı, Çeviri Editörü: Suna Büyüköztürk, 5. Baskı, 2016, ISBN: 9786054949564, Dünya Tıp Kitabevi.



12. Robbins Temel Patoloji, çeviri Ed. Prof. Dr. Sıtkı TUZLALI, Prof. Dr. Mine GÜLLÜOĞLU,
10. Baskı, Güneş Kitabevi.

Supplementary Resources:

1. Orourke R, Fuster V: Kalp Hastalıkları El Kitabı, Nobel Tıp Kitabevi, 2005.

Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|------|--|
| 1 | <p>Genetic characteristics of Cardiovascular Malformations are learned. Also in this course covers the examination of the circulatory system in children, the signs and symptoms of heart failure, congenital heart diseases, and the pathology of these diseases. It also provides integrated information about the mechanisms of action and side effects of drugs used in the treatment of heart failure.</p> <p>Also in this course, diseases of the nose and paranasal sinuses, as well as diseases of the nasopharynx and pharynx, and upper respiratory tract infections, including the microbiological agents that lead to these infections.</p> |
| 2 | <p>Heart valve diseases, artery, vein and lymphatic circulatory diseases, chest pain and syncope, heart failure atherosclerotic risk factors and pathogenesis of CAD diseases, pharmacokinetics, pharmacodynamics, mechanisms of action, their use in treatment and side effects are given.</p> <p>Symptoms and examinations of respiratory diseases in adults and children, causes of respiratory distress in newborn, pathological and radiological diagnostic methods and properties of respiratory system are explained.</p> |
| 3 | <p>In this week the lectures covers the topics of Inflammation, Inflammatory diseases and Infection Immunology.</p> <p>Rhinosinusitis, laryngeal shortness of breath, hoarseness and laryngeal tumors, lung diseases and infections, pharmacology of respiratory drugs, microbiological factors of lower respiratory tract infections are learned.</p> |
| 4 | <p>Pulmonary infections, chronic obstructive pulmonary diseases, bronchiectasis, chronic bronchitis, asthma, tuberculosis and tumoral diseases are treated clinically and pathologically. Also pharmacological information of heart valve diseases, thrombolytic and antithrombotic drugs and drugs affecting the respiratory system are given.</p> |
| 5 | <p>Antibiotics used in the treatment of infective diseases affecting the respiratory system by diagnostic methods in thoracic surgery, diffuse lung diseases, principles of use and clinical usage properties are given.</p> <p>The effects of smoking on the respiratory system and the pharmacology of smoking are taught.</p> <p>Ethical and clinical aspects of organ transplantation and organ donation and the concept of basic and advanced life support are discussed. The importance of life support is discussed.</p> <p>Medical history of the 20th century and the Republican period are explained in relation to the history of the medical profession.</p> |
| 6 | EXAM WEEK |



EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|--------|--------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presantation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |

RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | x |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | X | | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | X | | | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | X | | | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | X | | | | |
| 6 | Can practice preventive medicine and forensic medicine | X | | | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | X | | | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | X | | | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.



AKTS (Work Table)

| Activities | Number | Duration (hour) | Total Work |
|---|---------------|----------------------------|-------------------|
| Course Length (includes exam week: 8 x total course hours) | 124 | 1 | 124 |
| Laboratory | 6 | 1 | 6 |
| Practises | | | |
| Internship (if any) | | | |
| Field Study | | | |
| Out-of-class Course Study Time (Pre-study, practice) | 38 | 1 | 38 |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | | | |
| Board Exams | 1 | 4 | 4 |
| Total | 168 | | 172 |



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| | | | |
|---|---|---------------|----------------|
| Digestive System and Endocrine System Diseases | | | TIP 331 |
| AKTS 8 Credit | 3 rd year – 1 th semester | Undergraduate | Mandatory |
| 109 hours/7 weeks | Theoric/Practice: 104 hours/ 5 hours/ 7 weeks | | Turkish |
| Period III Coordinator: Prof. Hülya GÜVEN | | | |
| Course III Coordinator: Assist. Prof. Ayten ARIKAN | | | |
| CONTACT: hulya.guven@yeniyuzvil.edu.tr ayten.arikan@yeniyuzvil.edu.tr | | | |
| Visiting Hours: Every Wednesday 12.30-13.30 p.m. | | | |

Course Objectives:

The primary goal of the five-week course on Digestive System and Endocrine System Diseases is to enable students to understand the pathophysiology and pathogenesis of diseases affecting the digestive and endocrine systems, along with the cellular and genetic mechanisms that relate to clinical processes.

Understanding the mechanisms of development, pathology, biochemical processes, symptoms, clinical manifestations, laboratory interpretations, imaging findings, and pharmacological approaches for all diseases related to the gastrointestinal system, including the liver.

Learning about viral, parasitic and bacterial agents that can cause infections in this system.

Recognizing the importance of nutrition in both children and adults, as well as understanding the fundamental concepts of nutrition.

Gaining knowledge about the physiopathology, causes, and relationships of symptoms related to the endocrine system. This includes disorders like diabetes, pituitary disorders, hyperthyroidism, thyroiditis, diabetes insipidus, Cushing's syndrome, and congenital adrenal hyperplasia.

Preparing students for the medical profession by imparting effective communication skills and the skills and ethical attitudes necessary for professional practice.

The course is comprehensive, covering a broad spectrum of topics related to the digestive and endocrine systems, with a focus on both clinical and genetic aspects, as well as the importance of effective communication and ethical conduct in the medical field.

Learning Outcomes and Sub-Skills:

Students who have successfully completed this course,

1. They comprehend Biochemical Molecules and Mechanisms: Understand the fundamental biochemical molecules and mechanisms related to digestive system and endocrine system diseases, including their general characteristics and mechanisms.
2. They learn the physiopathology of symptoms and clinical findings associated with gastrointestinal system diseases.
3. They gain knowledge of diagnostic and imaging methods relevant to digestive system and endocrine system diseases.
4. They understand the microbial processes responsible for diseases affecting the digestive and endocrine systems.



5. They learn about digestive and endocrine system diseases in children and their associated surgical methods.
6. They familiarize themselves with the general epidemiological, clinical, and pathological characteristics of common functional, structural, inflammatory, metabolic, and neoplastic diseases of the gastrointestinal and hepatopancreatobiliary systems. They describe their pathogenesis and preventive medical practices.
7. They learn about the etiology, medical history, physical examination, laboratory, and pathological findings related to gastrointestinal system bleeding, acute hepatitis, acute abdominal conditions, acid formation, and ileus.
8. They acquire knowledge about hormones of the pituitary and hypothalamus, antidiabetic drugs, thyroid hormones and antithyroid drugs, drugs affecting bone mineral metabolism, corticosteroids, antagonists, ACTH drugs, their interactions, combinations, mechanisms of actions, indications, and side effects.

This course aims to provide students with a comprehensive understanding of biochemical, clinical, and pharmacological aspects of digestive system and endocrine system diseases, preparing them for effective medical practice.

Brief description of the course:

To have knowledge about pathophysiology, pathogenesis, pharmacology and microbial processes of digestive and endocrine system diseases together with basic diagnostic and imaging methods in adult and child.

Teaching Methods and Techniques:

Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments.

Prerequisite: None

Basic Resources:

1. Erdemir A: Etik ve Deontolojik Yönleriyle Kanser Olgu Örnekleriyle, Nobel Tıp Kitabevi, 2013.
2. Sencer E: Beslenme, İstanbul Tıp Kitabevi, 2005.
3. Delegge M: Nutrisyon ve Gastrointestinal Hastalık, Nobel Tıp Kitabevi, 2011.
4. Erdemir A: Tıpta Etik ve Deontoloji, Nobel Kitabevi, 2011.
5. Bergin J: Dahiliye Hatırlatmalar, Nobel Kitabevi, 2002.
6. Stoller J, Michota F, Mandell B: Cleveland Klinik İç Hastalıkları, İstanbul Tıp Kitabevi, 2014.
7. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, Pelikan Kitabevi 2024.
8. Carol Mattson Porth, Çev. Ed. Prof. Dr. Mine Durusu Tanrıöver, Uzm. Dr. Alper Sarı, Patofizyolojinin Temelleri, ISBN: 9786053558125, Palme Yayınevi, 2018



Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|------|---|
| 1 | <p>During the first week of the course, students are provided with integrated lessons that enable them to evaluate diseases of the mouth and salivary glands, esophagus, and stomach. They learn to explain the physiopathology of esophageal motor function disorders and reflux, as well as to describe the pathological and immunological characteristics of these diseases.</p> <p>Also the causes of gastrointestinal system infections, methods of diagnosis, and the microorganisms responsible for these infections, with a specific focus on acute gastroenteritis.</p> |
| 2 | <p>This course covers a wide range of topics related to digestive system and hepatopancreatobiliary diseases. They understand diagnostic methods for chronic gastritis and hypertrophic gastropathies.</p> <p>They learn how to diagnose and manage gastrointestinal bleeding. Also they identify and diagnose liver diseases and complications associated with cirrhosis. They understand the pathology, symptoms, and clinical presentation of diseases affecting the liver, biliary tract, and pancreas.</p> <p>They are develop skills in conducting physical examinations related to these diseases. They learn about the microbial agents responsible for gastrointestinal infections. Is provided learning the microbiological and biochemical examination methods used in diagnosing gastrointestinal infections, explore the pharmacological properties and side effects of drugs used in the treatment of peptic ulcers, obesity, and emesis.</p> <p>Is provided the Gain knowledge of the immunology of liver and kidney diseases, including immunological tolerance and immune response regulation, about intestinal diverticula, polyps, tumors, and their management.</p> <p>They intestinal obstruction, ischemic bowel diseases, and angiodysplasia: Understand diagnostic methods for intestinal obstruction, ischemic bowel diseases, and angiodysplasia.</p> <p>Also is provided gain knowledge about surgical approaches and interventions for gastrointestinal and hepatopancreatobiliary pathologies in both pediatric and adult patients.</p> <p>This comprehensive curriculum prepares students to diagnose, manage, and understand the pathophysiology of various diseases in the digestive system, liver, biliary tract, and pancreas, while also providing insights into immunology and surgical approaches.</p> |
| 3 | <p>Physiopathology of the symptoms related to the pancreaticobiliary system, their causes and relationships with other systems, to learn the clinical laboratory and pathological features of common diseases, the clinical and pathological features of metabolic liver diseases intrahepatic biliary tract diseases are taught.</p> <p>Is provided to teach the clinical features of common digestive system diseases in newborn and childhood. Provided of the exploring the characteristics, physiopathology, diagnosis, examination methods, pharmacological treatment, mechanisms of action, and side effects of medications used in the treatment of endocrine system-related diseases and understanding the clinical features, diagnosis, classification, and pharmacological properties of drugs used in the treatment of diabetes, including is taught Type 1 and Type 2 diabetes, as well as the management of acute and chronic complications.</p> |



| | |
|---|--|
| 4 | <p>In this week of the course on endocrine-related diseases in childhood and adulthood covers various aspects of endocrinology and hormonal disorders.</p> <p>Understanding the hormonal physiology of the pituitary and hypothalamus, their relationships with other hormones, the effects of hormones, and the pharmacological properties of hormones.</p> <p>Diseases of the pituitary and hypothalamus: Learning about the development, pathology, and clinical manifestations of diseases related to the pituitary and hypothalamus.</p> <p>Thyroid physiology and diseases: Understanding the functional physiology of the thyroid gland, its related diseases, the mechanisms of disease development, and the characteristics of autoimmune thyroid diseases.</p> <p>Calcium metabolism disorders in adults: Exploring the mechanisms of diseases related to calcium metabolism, their clinical features, and the medications used for treating mineral imbalances.</p> <p>This course provides students with a comprehensive understanding of endocrinology, allowing them to diagnose, manage, and explain the pathophysiology of hormonal disorders related to the pituitary, hypothalamus, thyroid, and calcium metabolism in both children and adults.</p> |
| 5 | <p>In this course will teach understanding the concept of autoimmunity and the pathogenesis of autoimmune diseases, including organ-specific autoimmune diseases. Students will learn about the clinical manifestations and pathological aspects of these diseases and learning the unique features, pathology, and macroscopic and microscopic characteristics of diseases related to the endocrine system.</p> <p>They learning about the mechanisms of action, specific considerations in usage, and potential side effects of drugs related to hormones such as prolactin, growth hormone, and antidiuretic hormone.</p> |
| | KURUL SINAVI |

EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|--------|--------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presentation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |



RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | X |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | X | | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | X | | | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | X | | | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | X | | | | |
| 6 | Can practice preventive medicine and forensic medicine | X | | | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | X | | | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | X | | | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.

AKTS (Work Table)

| Activities | Number | Duration (hour) | Total Work |
|---|------------|-----------------|------------|
| Course Length (includes exam week: 8 x total course hours) | 104 | 1 | 104 |
| Laboratory | | | |
| Practises | 5 | 1 | 5 |
| Internship (if any) | | | |
| Field Study | | | |
| Out-of-class Course Study Time (Pre-study, practice) | 75 | 1 | 75 |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | | | |
| Board Exams | 1 | 4 | 4 |
| Total Work | 185 | | 185 |



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| | | | |
|--|---|---------------|---------------|
| Blood and Urinary System Diseases | | | TIP312 |
| AKTS 8 Credit | 3 rd year – 2 nd semester | Undergraduate | Mandatory |
| 109 hours/5 weeks | Theory/Practice: 100 hours/ 9 hours/ 5 weeks | | Turkish |
| Period IV Coordinator: Prof. Hülya GÜVEN Course IV Coordinator: Assist. Prof. Birgül TÜZÜN | | | |
| e-mail: hulya.guven@yeniyuzyl.edu.tr birgul.tuzun@yeniyuzyl.edu.tr | | | |
| Visiting Hours: Every Wednesday. 12.30-13.30 pm | | | |

Course Objectives:

The main purpose of the four-week Board of Blood and Excretory System Diseases is to provide the understanding of the pathophysiology and pathogenesis of blood and excretory system diseases and the clinical processes of cellular and genetic mechanisms, and the pharmacology of drugs used in the treatment of their diseases. In addition, the basic diagnostic and imaging methods to have information about. Again, effective communication skills required by the profession of medicine and professional skills and ethical attitudes are aimed to gain.

Learning Outcomes and Sub-Skills:

Students who have successfully completed this course,

1. Understand the clinical, biochemical, and molecular aspects of blood and excretory system diseases, including their development mechanisms, as well as the pharmacokinetics, pharmacodynamics, usage, and potential side effects of medications used for treatment.
2. They are learn of the define the concept of bone marrow failure, acquire knowledge about clinical and laboratory findings, identify common causes of bone marrow insufficiency, and perform preliminary and differential diagnoses.
3. They comprehend the typical causes of anemia in both childhood and adulthood, differentiate between various types of anemia, and learn to recognize clinical and laboratory findings.
4. They gain an understanding of iron metabolism physiology and distinguish between common clinical-pathological conditions related to iron metabolism. Also they learn about the etiological factors, clinical manifestations, and laboratory findings of iron deficiency anemia.
5. Familiarize yourself with the diagnosis, clinical symptoms, and the laboratory and imaging methods used in the context of lymphatic system diseases.
6. They learn about the microbial agents responsible for causing blood and excretory system diseases.
7. Acquire knowledge about blood and urinary system diseases and surgical procedures specific to pediatric patients.



Brief description of the course:

To have knowledge about the pathophysiology, pathogenesis, pharmacology and microbial processes of blood and excretory system together with basic diagnostic and imaging methods in adult and child.

Teaching Methods and Techniques:

Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments.

Prerequisite: None

Basic Resources:

1. Robert S.Hikman, Kenneth A.Ault , Henry M.Rinder: Klinik Pratikte Hematoloji, Güneş Tıp Kitabevi, 2009.
2. Üstdal M, Donma O, Kuş S, Çimen B: Genel ve Klinik Biyokimya 1, İstanbul Tıp Kitabevi, 2011.
3. Şahin C: Üretra Darlıklarına Yaklaşım: Türk Üroloji Akademisi, 2016.
4. Sarıçolu S: Nefropatoloji Böbrek Hastalıkları ve Böbrek Transplantasyon Patolojisi, Nobel Tıp Kitabevi, 2012.
5. Gürakar M: Karaciğer Hastalıkları El Kitabı, İstanbul Tıp Kitabevi, 2012.
6. Cappelini MD, Cohen A, Porter J, Taher A, Viprakasit V: Talaseminin Klinik Yönetim Rehberi, Uluslararası Talasemi Federasyonu, 2016.
7. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, Pelikan Kitabevi 2024.



Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|-------------|--|
| 1 | <p>In this week teaching Understand the components of blood and their fundamental properties, as well as the indications for treatment and the principles and potential side effects associated with treatment. Also provide to explore the pathophysiology of myeloproliferative diseases, including their clinical and laboratory characteristics, and learn how to differentiate between these diseases.</p> <p>In this week's study, normal histology of lymph nodes and basic reactive lymphadenopathy are taught, as well as information about lymphadenitis, and they are taught distinguish between common causes and types of lymphadenopathy.</p> <p>Is taught that delve into the etiopathogenesis of Hodgkin lymphoma, its histological classification, clinical features, and the classification of non-Hodgkin lymphomas, along with the characteristics of different types. That they learn how to differentially diagnose Hodgkin and non-Hodgkin lymphoma.</p> |
| 2 | <p>Within the scope of hemostasis physiology, they learn the physiology of coagulation and fibrinolysis, coagulation system disorders, the classification of congenital or acquired primary and secondary hemostasis disorders, and their clinical and laboratory findings, The concepts of hemolysis and hemolytic anemia, etiological factors of hemolysis, differences between immune and non-immune hemolysis, intravascular and extravascular hemolysis, clinical and laboratory findings in a patient with hemolytic anemia, diagnostic methods and other diseases that may develop are taught. The mechanisms of action and side effects of hemolytic anemia and drugs used in the treatment of anemia are taught.</p> <p>They are taught to evaluate urinary system symptomatology and diagnostic approach to kidney diseases, kidney hemodynamics and urine formation, infections, pathologies of urinary system diseases and the tests used in the diagnosis of diseases, as well as the mechanisms that create acid-base balance and fluid-electrolyte system disorders.</p> <p>They learn the mechanism and clinic of the main allergic reactions that develop together with immunoallergic reactions.</p> <p>The concept of organ donation and transplantation, bone marrow transplantation and the features of the cell processing unit are explained.</p> |
| 3 | <p>To describe the diagnosis, pathology and clinical findings of glomerular diseases, approach to the patient with proteinuria and hematuria, diagnostic features of urinary system congenital anomalies and anomalies, the process from acute and chronic renal failure to its consequences.</p> <p>The formation mechanisms and treatment of hypertension, differences in pregnancy, child and adult hypertension are taught.</p> <p>Hematuria characteristics, causes, diagnosis and diagnosis of acute post streptococcal glomerulonephritis are taught in children.</p> |
| 4 | <p>To be able to define chronic renal failure from causes to consequences, monitoring of renal failure and nephron sparing treatment approach are taught.</p> <p>Polycystic kidney diseases, congenital urogenital anomalies, causes, clinics and pathological descriptions of antenatal hydronephrosis are explained,</p> <p>Imaging methods and interpretations that can be used in the diagnosis and pathology of urinary system diseases and tumors,</p> <p>Dialysis methods used in renal failure, organ donation and transplantation characteristics, methods and importance of bone marrow transplantation are taught.</p> <p>To teach the diseases of urogenital system related to smoking and its consequences. To teach tuberculosis, HIV and AIDS immunology,</p> <p>Microbiological examination of blood, abscess, swab samples.</p> |
| 5 | EXAM WEEK |



EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|--------|--------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presantation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |

RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | x |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | | X | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | | | X | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | | | X | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | X | | | | |
| 6 | Can practice preventive medicine and forensic medicine | | | X | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | X | | | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | | | X | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.



AKTS (Work Table)

| | Number | Duration (hour) | Total Work |
|---|---------------|----------------------------|-----------------------|
| Activities | | | |
| Course Length (includes exam week: 8 x total course hours) | 100 | 1 | 100 |
| Laboratory | 9 | 1 | 9 |
| Application | | | |
| Internship (if any) | | | |
| Field Study | 41 | 1 | 41 |
| Out-of-class Course Study Time (Pre-study, practice) | | | |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | 1 | 4 | 4 |
| Board Exams | | | |
| Total | 151 | | 154 |



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| | | | |
|---|---|---------------|---------------|
| Nervous System Diseases | | | TIP322 |
| AKTS 9 credit | 3 rd year – 2 nd semester | Undergraduate | Mandatory |
| 147 hours/7 weeks | Theoric/Practice: 142 hours/ 5 hours/ 7 week | | Turkish |
| Period III Coordinator: Prof. Hülya GÜVEN | | | |
| Course V Coordinator: Assist. Prof. Selin KANKAYA | | | |
| CONTACT: hulya.guven@yeniyuzyl.edu.tr selin.kankaya@yeniyuzyl.edu.tr | | | |
| Visiting Hours: Every Wednesday. 12.30-13.30 pm | | | |

Course Objectives:

The main purpose of the Nervous System Diseases board is to ensure understanding of the pathophysiology and pathogenesis of nerve diseases and the relationship of cellular and genetic mechanisms with clinical processes. It is also aimed to teach students to understand diseases such as mood and neurocognitive disorders, substance use and psychosis in psychiatry, and to teach basic concepts about the clinical features, pathologies, biochemistry, infectious agents, laboratory and imaging methods of diseases involving the central and peripheral nervous system, and pharmacological approaches to their treatments and drugs used. . It is also aimed to provide effective communication skills required by the medical profession, as well as skills and ethical attitudes in professional practices.

Learning Outcomes and Sub-Skills:

Students who have successfully completed this course,

1. They understand the basic biochemical molecular mechanisms related to nervous system diseases and their general properties.
2. They learn diagnostic and imaging methods related to nervous system diseases.
3. Learn the mechanisms of microbial process causing nervous system diseases.
4. They comprehend the psychodynamic properties of behavior.
5. They learn Mood disorders, sleep disorders, alcohol and substance.
6. They learn use psychoses, anxiety disorders, trauma and stress related disorders and pharmacological properties of drugs used in treatment.
7. They learn the causes and precautions of social mental illnesses and occupational diseases.
8. They comprehend vascular, degenerative and demyelinating diseases of central nervous system.
9. They learn the properties of epilepsy in children and adults.
10. They learn the primary and secondary causes of headache and the pharmacology of the drugs used in the treatment.
11. They comprehend the diagnosis findings, causes and clinic of peripheral neuropathy.
12. They learn the causes and symptoms of joint pain, rheumatic diseases other than headache surgical and physiotherapy methods.
13. They learn autonomic nervous system characteristics.



Brief description of the course:

To have knowledge about the pathophysiology, pathogenesis and microbial processes of diseases in nervous system and psychiatry together with basic diagnostic and imaging methods in adults and children.

Teaching Methods and Techniques:

Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments

Prerequisite: None

Basic Resources:

1. Royden J: Netter Nöroloji, Nobel Tıp Kitabevi, 2012.
2. Alan Hakim , Gavin Clunie , Inam Haq: Romatoloji El Kitabı, Nobel Tıp Kitabevi, 2009.
3. Özgen T: Renkli Nöroloji Atlası, Nobel Tıp Kitabevi, 2008.
4. Erol Ç: İç Hastalıkları "Nörolojik Hastalıklar", Nobel Tıp Kitabevi, 2008.
5. Fauci A: Harrison Romatoloji, Nobel Tıp Kitabevi, 2014.
6. Altun N, Yazar T, Benli T: Dejeneratif Omurga Hastalıkları, Türk Omurga Derneği Yayınları, 2016.
7. Pınar L: Sinir ve Kas Fizyolojisi Temel Bilgileri, Akademisyen Tıp Kitabevi, 2014.
8. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, Pelikan Kitabevi 2024.

Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|------|---|
| 1 | <p>By covering the anatomy and physiology of the nervous system, neuroanatomical relationships are reminded again, Basic physiopathological mechanisms related to neurological and psychiatric diseases are taught. Neurological symptoms, neurological evaluation and neurological examination features, pathogenesis are understood. Risk factors, epidemiological and clinical features, and pathogenesis of cerebrovascular diseases are taught. The clinic, diagnosis and pathology of rheumatic diseases, Behcet's disease and FMF diseases, which are common in our country, are given. In pharmacology, the characteristics of the autonomic nervous system, drugs that affect the autonomic system, their effects, indications and side effects are taught. is given. The effects of social mental health and employment styles on health are comprehended. The concept of ethical value and its importance are explained.</p> |
| 2 | <p>The characteristics of extrapyramidal and cerebellar system diseases and the basic clinical and pathophysiological features of the diseases are taught. Clinical features, types, factors and pathological evaluations of central nervous system infections are given. Pharmacologically, parasympatholytic, parasympathomimetic, sympathomimetic and sympatholytic effects and indications and side effects of effective drugs are given. The causes of headaches and joint pain outside the central nervous system, their clinical and surgical definitions, treatment features, usage properties and side effects of drugs are given.</p> |
| 3 | <p>In psychiatry, the causes, epidemiology, etiology and clinical features of mood and</p> |



| | |
|---|---|
| | <p>neurocognitive disorders, substance use, psychoses, bipolar disorder, psychotic disorder, phobic disorder, obsessive compulsive disorder, cognitive disorders and the properties of drugs used in treatment are comprehended.</p> <p>Degenerative and metabolic diseases of the central nervous system, clinical and pathological features of demyelinating diseases are taught.</p> <p>Diagnosis, examination and treatment of orthopedic diseases that can cause severe pain such as Trauma and Fracture are given.</p> <p>The mechanism of action, indications and side effects of drugs used in the treatment of neuropsychiatric diseases and anesthetic applications are given.</p> <p>The concept of ethics is established, ethical concepts related to the beginning and end of life are taught.</p> |
| 4 | <p>Clinical and pathological features and pathological features of neoplastic diseases affecting central nervous system.</p> <p>Pathological features and clinical findings of nervous system traumas are taught.</p> <p>Bone development and pathological fracture characteristics are given.</p> <p>Radiological diagnostic features of CNS pathologies are given.</p> <p>To teach cancer and AIDS patients and ethical approach in cloning.</p> <p>The pharmacological properties of narcotic and other analgesic drugs.</p> |
| 5 | <p>Clinical findings, radiological and nuclear investigations of muscle diseases, neuromuscular junction diseases, demyelinating diseases are given.</p> <p>The concept of alcohol and substance addiction, risk factors, child and adult epilepsy are explained, treatment and precautions are given.</p> |
| 6 | <p>Clinical findings and prevention methods of diseases such as rabies, tetanus and botulism affecting central nervous system are taught.</p> <p>Learn pathogenesis and pathological features of seronegative spondylarthropathies, infectious arthritis and crystal arthropathies.</p> <p>Immunological-based treatments in CNS diseases are taught.</p> |
| 7 | KURUL SINAVI |

EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|--------|--------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presantation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |



RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | X |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | | X | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | | | X | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | | | X | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | | | X | | |
| 6 | Can practice preventive medicine and forensic medicine | | | X | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | | | X | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | | | X | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.

AKTS (Work Table)

| Activities | Number | Duration (hour) | Total Work |
|---|------------|-----------------|------------|
| Course Length (includes exam week: 8 x total course hours) | 142 | 1 | 142 |
| Laboratory | | | |
| Application | 5 | 1 | 5 |
| Internship (if any) | | | |
| Field Study | 47 | 1 | 47 |
| Out-of-class Course Study Time (Pre-study, practice) | | | |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | | | |
| Board Exams | 1 | 4 | 4 |
| Total | 195 | | 198 |



FACULTY OF MEDICINE

UNDERGRADUATE PROGRAM

| | | | |
|---|---|---------------|---------------|
| Reproductive System Diseases | | | TIP332 |
| AKTS 8 Credit | 3 rd year – 2 nd semester | Undergraduate | Mandatory |
| 141 hours/7 weeks | Theoric/Practice: 120 Hours/ 21 Hours/ 7 weeks | | Turkish |
| Period III Coordinator: Prof Dr. Hülya GÜVEN Course VI Coordinator: Assist. Prof. Ayten ARIKAN | | | |
| CONTACT: hulya.guven@yeniyuzuil.edu.tr ayten.arikan@yeniyuzuil.edu.tr | | | |
| Visiting Hours: Every Wednesday: 12.30-13.30 pm | | | |

Course Objectives:

The main aim of the reproductive system diseases committee which lasts for six weeks is to comprehend the physiology of reproductive and genital systems and their formation mechanisms, pathologies, biochemical properties, disease causes, infectious agents, clinical features and imaging methods of these diseases. The aim of this course is to understand the pathophysiology and pathogenesis of reproductive diseases and the relationship between cellular and genetic mechanisms and clinical processes. In addition, the normal development of pregnancy, fetus and newborn after pregnancy and to understand the clinical features of diseases, diseases to provide. Again, effective communication skills required by the profession of medicine and professional skills and ethical attitudes are aimed to gain.

Learning Outcomes and Sub-Skills:

Students who have successfully completed this course,

1. Understand the basic biochemical molecules and mechanisms related to reproductive system diseases and their general properties and mechanisms.
2. Learn diagnosis and imaging methods related to reproductive system diseases.
3. Learn microbial process causing reproductive system diseases.
4. Learn reproductive system diseases and surgical methods in children.
5. Describe the diseases of menstruation and ovulation disorders.
6. Inflammatory and neoplastic diseases of female genital system organs learn pathological features.
7. Learn the physiology of fetus and placenta, placental and trophoblastic diseases.
8. Understand pregnancy and lactation physiology, pregnancy formation, screening tests and prenatal diagnosis tests and genetic counseling methods in pregnancy.

Brief description of the course: Having knowledge about the clinic of disease processes by examining the pathophysiology, pathogenesis and microbial processes of the reproductive system together with basic diagnosis and imaging methods in adults and children.



Teaching Methods and Techniques: Lessons are taught by the lecturer but classroom discussion and lecture attendance are provided. Part of the lessons is "Laboratory Practices", where the theoretical knowledge learned is transformed into practice by experiments.

Prerequisite: None

Basic Resources:

1. Bülbül A, Uslu H: Yenidoğan Acilleri, İstanbul Tıp Kitabevi, 2014.
2. Doubilet P, Benson C: Obstetrik ve Jinekolojide Ultrasonografi Atlası, İstanbul Tıp Kitabevi, 2015.
3. Rathfisch G: Doğal Doğum Felsefesi, Nobel Tıp Kitabevi, 2012.
4. Doan T, Melvold R, Viselli S, Waltenbaugh C: İmmünoloji, Nobel Tıp Kitabevi, 2014.
5. Camcıoğlu Y, Deniz G: Temel İmmünoloji İmmün Sistemin Fonksiyonları ve Bozuklukları, İstanbul Medikal Yayıncılık, 2007.
6. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 13. Baskı, ISBN: 9786055270100, 2018.
7. Carol Mattson Porth, Çev. Ed. Prof. Dr. Mine Durusu TanrıöverUzm. Dr. Alper Sarı, Patofizyolojinin Temelleri, ISBN: 9786053558125, Palme Yayınevi, 2018.
8. Oğuz Kayaalp, Akılcı Tedavi Yönünden Tıbbi Farmakoloji 1-2, 14. Baskı, ISBN: 9786055270100, Pelikan Kitabevi 2024.

Course Content:

WEEKLY TITLES AND RELATED PRELIMINARY PREPARATION PAGES

| Week | Topics |
|------|---|
| 1 | To understand the anatomy of the female genital system and the physiological characteristics of puberty, normal pubertal development, physiology of menstruation and disorders of puberty. To be able to define infections of female genital system organs and diseases of vulva and vagina and to understand their pathological features. Gynecology and obstetrics anamnesis and examination methods are given. Reproductive system disorders and coronary and non-tumor diseases are taught. The main cause of death in the world and Turkey in terms of public health and the necessary measures are described. |
| 2 | Pregnancy and fetus physiology, risky pregnancies and the factors and other risks of intrauterine and childbirth infections Psychiatric disorders that may occur during pregnancy and post-partum period, Reasons and prevention of newborn infant and child deaths, gender and women's right to health are explained. Causes of male infertility, diagnostic methods and testicular tumors. |
| 3 | Obstetric anamnesis and concept, pregnancy diagnosis, pregnancy examination and follow-up and prenatal diagnosis tests are given. Approach to the newborn with normal labor, birth trauma, jaundice. Pregnancy and neonatal infections, TORCH infections and causes of sepsis formation and biochemistry are taught. Ovarian Non-Tumor Diseases, urinary tract infections and prostate and testicular diseases in men are given. Women's health criteria and definitions in terms of public health, gender discrimination and violence against women are explained. |



| | |
|---|--|
| 4 | Intervention of labor, puerperium, gestational and placental diseases. Reproduction and immunology of pregnancy, chromosomal diseases, importance of genetic counseling. Laboratory tests in immunology, pediatric and geriatric laboratory properties and importance The importance of sexual health education in terms of public health, sexuality and sexually transmitted infections in life periods and the causative agents are taught. |
| 5 | Reproductive system diseases, diagnosis and treatment of sexually transmitted diseases, gynecology screening tests and immunological laboratory tests, the importance and characteristics of microbiological examinations of the genital system. Family planning, reproductive rights contraception concept and contraceptive drugs are given. |
| 6 | Safe motherhood approaches, causes and prevention of school health and adult deaths, records used in our country and characteristics of notices of diseases and deaths. |
| 7 | Committee Exam |

EVALUATION SYSTEM

| SEMESTER STUDIES | NUMBER | CONTRIBUTION |
|-------------------------------------|---------------|---------------------|
| Continuity | | |
| Laboratory | | |
| Practice | | |
| Field Study | | |
| Course Specific Internship (If any) | | |
| Homework | | |
| Presantation | | |
| Project | | |
| Seminar | | |
| Midterm Exam | | |
| Committee Exam | 1 | 60 |
| Total | 1 | 60% |



RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

| | Program Qualifications / Outputs | * Contribution Level | | | | |
|----|--|----------------------|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 1 | Know the organization's normal structure and functioning. | | | | | X |
| 2 | Describe the mechanisms of disease occurrence, know the clinical and diagnostic features. | | | X | | |
| 3 | He can take the story of the patient and perform general systemic physical examination. | | | X | | |
| 4 | It can apply basic medical interventions for diagnosis and treatment of diseases. | | | X | | |
| 5 | Emergency illnesses can be treated and, if necessary, specialist centers can be referred for treatment services. | | | X | | |
| 6 | Can practice preventive medicine and forensic medicine | | | X | | |
| 7 | It has general information about the organization and functioning of the National Health System. | | X | | | |
| 8 | Know their legal responsibilities and define ethical principles. | | | | | X |
| 9 | It can effectively perform first-line treatment of common diseases. | | | X | | |
| 10 | They can organize scientific meetings and conduct projects. | X | | | | |
| 11 | To be able to use statistics and computer methods to evaluate scientific studies, foreign language enough to follow literature in medicine | | | X | | |

*1 lowest, 2 low, 3 middle, 4 high, 5 highest or completely / partially.

AKTS (Work Table)

| Activities | Number | Duration (hour) | Total Work |
|---|------------|-----------------|------------|
| Course Length (includes exam week: 8 x total course hours) | 120 | 1 | 120 |
| Laboratory | 21 | 1 | 21 |
| Application | | | |
| Internship (if any) | | | |
| Field Study | | | |
| Out-of-class Course Study Time (Pre-study, practice) | 32 | 1 | 32 |
| Presentation / Seminar Preparation | | | |
| Project | | | |
| Homeworks | | | |
| Board Exams | 1 | 4 | 4 |
| Total Work | 174 | | 177 |