**USKUDAR UNIVERSITY FACULTY OF MEDICINE COURSE CONTENTS  
THIRD CLASS  
I. SEMESTER (FALL)**

**MDC307 Committee Course 3A: Nervous System and Behavior, Digestive System and Metabolism, Urogenital and Endocrine System, and Punlic Health and Family Medicine Committee Course. (16+6) 19 ECTS: 22**

**Introduction to Clinical Sciences and Infectious Diseases**

The aim of this committee is to identify microorganisms of medical importance, to understand their important structural features and disease-causing processes, to explain the main diagnostic and therapeutic approaches. In this course board; Findings in diseases are examined, bacteria with medical importance, pathogenesis in bacterial diseases are learned, diagnosis and treatment methods are determined. Fungi with medical importance, fungal pathogenesis are learned, diagnosis and treatment methods are determined. The main signs and symptoms observed in infectious diseases are emphasized. Parasites with medical importance, pathogenesis of parasitic diseases are learned, diagnosis and treatment methods are determined. Viruses of medical importance, viral pathogenesis are learned, diagnosis and treatment methods are determined.

**Hematopoietic and Neoplastic Diseases**

In this course, it is aimed to give basic information and approach about neoplasia, hematopoietic and immune system. In this course committee, students will learn the structure, development and physiology of the hematopoietic system; will learn the pathogenesis of diseases related to the hematopoietic system. In addition, he will learn the symptoms of hematopoietic diseases, related risk factors, diagnosis, treatment principles and prevention of diseases. In this course board; classification of neoplasms, characteristics of benign and malignant neoplasms, etiology, spread and metastasis in neoplasia, cancer epidemiology and molecular basis of cancer, epithelial tumors, mesenchymal tumors, skin tumors, teratoma, pathology of central nervous system tumors, allergic, immunological and anaphylactic reactions; hemolytic anemia, iron deficiency anemia, aplastic-hypoplastic anemia, sickle cell anemia, hematological malignancies, immunopathology, cancer biochemistry, pharmacological principles of cancer treatment, antineoplastic drugs and biological effects of radiation.

**Circulatory and Respiratory System Diseases**

The aim of this committee is to teach basic information about heart, circulatory and respiratory system diseases and gain approaches in related fields. The epidemiology, pathological findings, clinical diagnosis, general treatment principles and pharmacological effects of drugs used for diseases of the cardiovascular and respiratory system diseases are emphasized. The development, structure and physiology of the respiratory system and the pathogenesis of diseases related to the system are learned. In addition, symptoms of lung diseases, related risk factors, diagnosis, treatment principles and prevention of lung diseases are comprehended. With an interdisciplinary approach, information is obtained about the morphology and functions of the cardiovascular system, its principles are learned, and pathophysiological mechanisms are associated with cardiovascular system diseases.

**MED204 Health Economics (2+0) 2 ECTS:3**

The aim of this committee is to teach the concept and methodology economics, to give basic skills about health economics analysis, to provide the ability to analyze and evaluate health economies of country systems. The content of this course is about analysis of the concept of health economics, the relationship of the health sector with economic growth and development, economic planning and planning of the health sector, project evaluation in the health sector. In addition to these, issues related to production and financing of health services, pharmaceutical industry and economy, economic rationality in health policies, economic evaluation techniques and Turkish health economy are emphasized.

**MED303 Biostatistics (2+0) 2 ECTS: 3**

The aim of this committee is to make students comprehend basic statistical knowledge and some statistical analysis methods. The content is about frequency distributions, measures of central tendency and distribution, probability and probability distributions, discrete probability distributions, normal distribution and binomial approximation to normal, hypothesis testing and confidence interval, hypothesis testing and confidence interval for population mean, importance control of difference between two population mean, peer-to-peer significance control of the difference, significance control of the population percentage and confidence interval, chi-square analysis, independence tests, dependency coefficients, regression analysis, hypothesis testing and confidence interval in simple linear regression, correlation analysis are included.