

ISTINYE UNIVERSITY
VOCATIONAL SCHOOL OF HEALTH SERVICES
DEPARTMENT OF MEDICAL LABORATORY TECHNIQUES
COURSE DESCRIPTIONS

1st SEMESTER

Medical Biology | 2 ECTS

Through this lesson, students learn general biology mechanisms, understand at a certain level and learn about living science in general

TLT111- Medical Laboratory Instruments And Chemistry | 5 ECTS

General information about the identification, usage and cleaning of materials used in laboratories and solution preparation.

TLT112- Medical Microbiology | 5 ECTS

Recognition of the instruments and instruments used in the microbiology laboratory, observance in the laboratory, required rules, structure and properties of microorganisms, microbiological tests, sterilization techniques.

TLT113- Biochemistry | 3 ECTS

With this course students will learn the features of basic biochemical mechanisms and by commenting on the problems they encounter in this area in their lives.

TRM111- Medical Terminology | 3 ECTS

With this course, students will be able to understand the meanings, They will be able to easily understand and use these terms in their professional and everyday life.

TLT 124- Hematology | 2 ECTS

Introduction to hematology, blood cell structure and functions, general evaluation of blood diseases, blood collection, blood count, peripheral spread, analysis of blood proteins, coagulation tests, sedimentation determination, blood group analysis, blood banking and blood bank test techniques.

MSE111- Occupational Ethics | 3 ECTS

This course will help students learn about the ethical concept and health professional ethics and find solutions to the problems they face in their professional life.

ATA111- Ataturk's Principles And History Of Turkish Revolution I | 2 ECTS

Teaching the military, political, economic and social events of the Ottoman Empire in the internal and external politics, the struggle for national liberation and the formation of the new Turkish Republic.

ING111- English I | 2 ECTS

Students will understand English effectively and use basic grammar of English Rules. Through this course, students will be able to interpret simple dialogues in English and use the new structures and words they have learned in their daily lives.

TURK111- Turkish Language I | 2 ECTS

To give information about language definition, role and importance in communication, verbal and written expression techniques in literary and scientific fields, writing rules and expression disorders.

2nd SEMESTER

TLT121- Microbiology Applications | 5 ECTS

To teach laboratory safety and rules and instruments, microbiological test techniques, sterilization techniques, biochemical and hematological test methods.

TLT122- Medical Microbiology | 4 ECTS

Classification of microorganisms, definition and formation mechanisms of infections, diseases caused by microorganisms, laboratory diagnosis, treatment against infections, protection and control methods.

TLT123- Medical Biochemistry | 5 ECTS

Proteins, carbohydrates, diseases that be a result of metabolism disorders in lipids; Assessment of altered enzyme activities in various clinical situations such as impairment of porphyrin and hemoproteins, myocardial infarction, impaired liver function; Mechanisms of action of hormones and their linkages, Quality control and standardization in clinical biochemistry laboratory; Screening Tests; Teaching Patient Head Tests.

Biochemistry And Hematology Applications | 6 ECTS

Recognition of laboratory safety and rules, tools and equipments used, microbiological testing techniques and teaching of sterilization techniques, biochemical and hematological testing methods to learn about the acquisition of topics and practices.

TLT125- Immunology | 3 ECTS

The students will be informed about the definition of the immune system, cells and organs involved in the immune system, the mechanism of the immune response, mechanisms of natural acquired immune and acquired immune formation, strengthening immunity, use of clinical immunology methods.

ATA121- Ataturk's Principles And History Of Turkish Revolution II | 2 ECTS

This course examines Atatürk's principles and reforms and the political developments after the Ataturk with the establishment process of the Republic of Turkey.

ING121- English II | 2 ECTS

Students will be able to understand English, use it effectively and compare basic grammar rules of English. Through this course, students can comment on simple dialogues in English and use the new structures and words they have learned in their daily lives.

TURK121- Turkish Language II | 2 ECTS

Proper use of punctuation marks in writing, development of plain text writing skills, listening and reading skills are taught.

3rd SEMESTER

TLT221- Molecular Biology Techniques | 5 ECTS

The course provides students with insight into ongoing research in molecular biology, and information about a variety of research techniques and their applications within this field.

ILK111- First Aid | 2 ECTS

First aid entry and general characteristics, evaluation of basic life function, respiratory and circulatory system, first aid injury, bleeding in first aid, shock and first aid, burns and first aid, poisoning and first aid, fracture-dislocations and sprains first aid, basic life support

TLT212- Serology And Molecular Applications | 5 ECTS

To teach molecular biology and microbiological test techniques, biochemical and hematological test methods.

TLT213- Compulsory Internship | 5 ECTS

The professional knowledge gained at the school, students will receive internships during the thirty working days at the end of the 2nd semester to ensure that they acquire new practical and technical skills, to acquire business skills, and to communicate effectively with other disciplines and administrators.

Pathology | 4 ECTS

In this course, the definition of Pathology and the methods and techniques used in pathology, and adaptation mechanisms of cellular injury, inflammation and wound healing, immunopathology, pathology of genetic diseases, neoplasia of bones, joints and soft tissues, peripheral nervous system and skeletal muscle abnormalities, central nervous system diseases.

STS211- Stress Management | 3 ECTS

To learn basic concepts about crisis and stress, what to do and how to do in crisis environment to teach that it should be managed, to give the awareness of controlling stress.

TLT212- Parasitology | 6 ECTS

Cerebrospinal fluid, urine and other body fluids on parasitological examination, protozoan species of features, diagnostic methods comprise the general properties of interference.

Manifest Of Istinye University I | 1 ECTS

After graduation of Istinye University students to increase their employability, social and life skills to help them discover and increase their skills. The Manifesto of Istinye University in different categories such as art, sports, career and so on. students participating in the activities are expected to report on the activities they attend. After the evaluation of the report prepared by the student center, the students are counted as past or repeated.

4th SEMESTER

Diseases Information | 5 ECTS

The system of the body and the basic knowledge of the diseases which are related to these systems are transferred to the students.

TLT 213- Histology 6 ECTS

The principal aim of the course is to provide a knowledge of tissue structure which is sufficient for the understanding of Physiology

Information And Communication Technology | 4 ECTS

In this course, communicate on the Internet, do business applications on the Internet, edit digital data, ready-made templates to prepare promotional material will be discussed.

TLT223- Basic Professional Skills | 5 ECTS

During his education and professional life, he / she was informed during treatment and care of healthy /apply basic skills

Manifest Of Istinye University II | 1 ECTS

After graduation of Istinye University students to increase their employability, social and life skills to help them discover and increase their skills. The Manifesto of Istinye University in different categories such as art, sports, career and so on. students participating in the activities are expected to report on the activities they attend. After the evaluation of the report prepared by the student center, the students are counted as past or repeated.

History Of Art | 3 ECTS

What is art ?, Style, perception and representation, Periodization of civilization history, Formation and development processes of Turkish art before and after Anatolia, Art-architecture and culture in the first Turkish-Islamic states, Architecture and decoration program of Seljuk and Beylik period The process of formation and development of Turkish art during the period of Early Ottoman, Ottoman and Westernization, Internal and external influences on the formation of Turkish art, Art movements and the effects of these movements on architecture, The development process of Turkish ornamentation and handicrafts.

Forensic Biology | 4 ECTS

To gain knowledge and skills about definition, content, sections and history of forensic biology, asphyxia, sudden deaths, sexual assaults, forensic toxicology, forensic biology, post-mortem changes and autopsy process.

ING221- Vocational English |2 ECTS

To address the basic concepts of professional English in the field of health, improve understanding skills, contribute to writing and speaking skills.