

ISTINYE UNIVERSITY
VOCATIONAL SCHOOL OF HEALTH SCIENCES
DEPARTMENT OF RADIOTHERAPY
COURSE DESCRIPTIONS

1st SEMESTER

RDY111– Physics | 2 ECTS

Teaching of the basic subject of physics which are physical quantities, kinematics, mechanics, work, power, energy, electromagnetism and radiation application in medicine.

RDY112- Radiotherapy Machines | 6 ECTS

Providing information about technical characteristics and usage of the devices used in radiotherapy.

Basic Oncology | 5 ECTS

With this course, students will learn the importance and function of radiotherapy in the treatment of cancer together with the theoretical explanation of the basic mechanisms of cancer.

RDY114- 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.

RDY115- Introduction To Anatomy | 3 ECTS

To give information about the anatomical structure and properties of human body.

Medical Biology | 2 ECTS

The aim of this course is; general concepts and functions of cell and hereditary material genetic mechanisms.

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.

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.

2nd SEMESTER

RDY121- Radiation Physics | 4 ECTS

To teach all basic concepts and information about Radiation used in Medical Physics and Health Physics.

RDY122- Radiation Safety And Protection | 4 ECTS

To teach biological effects of radiation and methods of protection

Rdy123- Clinical Oncology | 5 Ects

The radiotherapy program that will approach the cancer patients in the treatment process is to inform the students about all the cancers, the formation and progression of these cancers and the necessary information about the diagnosis and treatment methods.

RDY124– Radiotherapy | 5 ECTS

It is taught basic and clinical oncology knowledge and skills for radiotherapy technicians.

RDY125- Radiological Anatomy | 3 ECTS

Radiological anatomy of the head and neck region, radiological anatomy of the upper extremity, radiological anatomy of the lower extremity, radiological anatomy of the thorax and abdomen region, radiological anatomy of the pelvis region are taught to the students.

RDY126– Physiology | 3 ECTS

Introduction to human physiology, tissue and systems, homeostasis, Muscular System, Nervous System, Cardiovascular System, Blood and Immune system, Respiratory System, Sensory System, Digestive System, Urinary System, Endocrine System and Reproduction are taught to the students.

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

RDY212- Radiotherapy Clinic Practice Training I | 5 ECTS

The main purpose of the site of application activity, information that is acquired during learning of the students, skills and competencies, however, to win to consolidate and work experience through the application of a work in a field that is relevant in their learning and to facilitate thereby adjusting to working life.

Radiobiology And Nuclear Medicine | 4 ECTS

Examining the effects of molecular cellular tissue and organ levels of ionizing radiation support.

RDY224– Basic 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.

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.

RDY215– First Aid | 3 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.

RDY216– Compulsory Internship | 5 ECTS

The professional knowledge gained at the school, students will receive internships 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.

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.

SAİ211- Communication In Health | 3 ECTS

Basic concepts of Communication and Health Communication, Theories and Models of Communication, Target Audience, Campaign Process and Media Use

SKA211- Quality and Accreditation In Health | 2 ECTS

Introduction to quality management, historical development of quality management in the world and in Turkey, basic concepts of quality management, quality control and quality assurance concepts, total quality management and elements, accreditation calibration concepts, evaluation of service quality (SERVQUAL), EFQM, JCI - quality standards (SKS Version 5), quality control circles, statistical quality control methods, examples of quality management applications in health services

4th SEMESTER

RDY221- Approach To Oncology Patients | 5 ECTS

This course is taught how to treat cancer patients who are in a psychologically difficult situation.

Radiotherapy Clinic Practice Training II | 7 ECTS

The main purpose of the site of application activity, information that is acquired during learning of the students, skills and competencies, however, to win to consolidate and work experience through the application of a work in a field that is relevant in their learning and to facilitate thereby adjusting to working life.

BİL221- 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.

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.

RDY223- Basic Professional Skills | 5 ECTS

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

ING221- Health English II | 2 ECTS

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

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.

Carrier And Life | 3 ECTS

The aim of the course is to enable students to discover themselves during their education, to support their career planning, to learn how to deal with the problems they will be confronted with in their business life and to improve their life skills.