

VOCATIONAL SCHOOL OF HEALTH SERVICES

ENVIRONMENTAL HEALTH PROGRAM

2022-2023 CURRICULUM

FIRST CLASS - SEMESTER I

ATA101 HISTORY of The TURKISH REPUBLIC I

The basic concepts, Reasons for the collapse of the Ottoman State, Modernization movements in Turkey, First World War, National Independence War.

CEV121 ENVIRONMENTAL MICROBIOLOGY

Introduction of instruments and equipment used in the laboratory, general information about microorganisms, cell and chemical structure, microbiological diversity of the cell, microbial metabolism, microbial growth and proliferation kinetics, algae, fungi, protozoa, vectors and arthropods. It covers water, wastewater and solid waste microbiology, diseases and microbiology.

CEV109 ENVIRONMENTAL POLICIES AND LEGISLATION

Causes of environmental problems and prevention policies, national and international environmental protection policies, sustainable development and environmental issues are examined. It includes the reasons for the emergence of environmental problems, the historical development of environmental law, the concept of environmental law, Turkish Environmental Legislation, Laws, Regulations, International Conventions, EU Environmental Policies, and implementation suggestions for EU Environmental Directives.

LBT103 GENERAL BIOLOGY

The living world includes the main chemical substances that make up the structure of living things, cell information and metabolism, protein synthesis and the physiological state of the cell, and reproduction in the cell.

GKM101 GENERAL CHEMISTRY

Matter, Elements, Compounds, Mixtures, Measurements and Mole Concept, Finding Chemical Formulas, Redox Reactions, Calculations Based on Chemical Reactions, Atom: Atom models, Proton, Neutron, Electron, Electromagnetic Radiation, Bohr Atomic Theory, Periodic Table, Quantum Numbers, Atoms Radius, Ionization Energy, Electron Affinity, Electronegativity, Structure of Atomic Nucleus, Chemical Bonds: Ionic and Covalent Bonds, Exceptions to the Octet Rule, Chemical Bond Theories, Acid-Base Concept, Solutions, Buffer Solutions, Calorie Calculation of Foods.

INGU101 ENGLISH I

This is an elementary English course designed for beginners of English language. The learners are expected to develop four basic language skills; listening, speaking, reading and writing through various kinds of teaching techniques and practices. The learners are exposed to basic language structures and vocabulary with the help of authentic materials within real life context.

MYO101 BASIC ANATOMY AND PHYSIOLOGY

Introduction to Anatomy and Physiology, Cell Theory, Cell Organelles, Substance Exchange, Cell Metabolism, Locomotor System Anatomy and Bone, Joint and Muscle Physiology, Respiratory System Anatomy and Physiology, Circulatory System Anatomy and Physiology, Digestive System, Urinary System, Genital System Includes Endocrine System, Nervous System, Sense Organs Anatomy and Physiology.

TURK101 TURKISH LANGUAGE I

The course will help students to gain consciousness of language; inclination and habit of reading; proper usage of fundamental spelling and punctuation; and to gain a larger vocabulary set utilization.

RKUL101 UNIVERSITY CULTURE I

14 seminars will be held throughout the week, conferences, panels, workshops and singing Includes've frame Academics at the university, student council it recommends a program of student clubs of his era.

FIRST CLASS - SEMESTER II

ATA102 HISTORY of The TURKISH REPUBLIC II

Events in the genesis and development of modern Turkey, ideas and principles; Turkish Foreign Policy in Atatürk Era, Atatürk's Revolutions, The Basic principles of Turkish Revolution.

CEV100 ENVIRONMENTAL CHEMISTRY

Working and sampling principles in the laboratory, Solution preparation, Volumetric and gravimetric analysis, instrumental analysis, pH, acidity, alkalinity, water hardness, solids, conductivity, iron, manganese, chlorine types and chloride, fluoride, sulfur types, analyzes of these parameters and scope of application. Organic Substances: Total Carbon, Total Organic Carbon, Total Inorganic Carbon, Dissolved Oxygen, Biological Oxygen Demand, Chemical Oxygen Demand, Nitrogen Parameters: Kjeldahl Nitrogen, Ammonia Nitrogen, Nitrate Nitrogen, Nitrite Nitrogen, Phosphorus Parameters: Total Phosphorus, Dissolved Phosphorus, Condensed Contains Phosphorus, Organic Phosphorus, Surfactants, Oil and Grease, Essential Fatty Acids, Gas Analysis, Trace Pollutants.

CEV124 ENVIRONMENTAL IMPACT ASSESSMENT

Includes Methods Used for Determining Environmental Impacts, Criteria for Determining Environmental Impacts, Technical Information Required for Planning, EIA Regulation and Applications.

CEV128 ENVIRONMENTAL TOXICOLOGY

Basic principles of environmental toxicology and their place in practice, Demonstrating information about the importance and presence of environmental pollutants, Researching sustainable and regulated environmental conditions in terms of environmental quality, community and animal health.

CEV120 AIR POLLUTION AND CONTROL

Introduction to air pollution, definitions and atmosphere structure, Air pollutant sources and classification of pollutants, Formation processes of air pollutants and their effects on the environment, Pollution transformations in the atmosphere and dangerous air pollutants, Air pollution chemistry, Toxic gases and their effects on environmental health, Indoor air pollutants and their effects on health , on-site control of air pollutants, Legislation on air pollution. General definitions of precipitation, measurement and expression of precipitation, characteristics of precipitation, geographical distribution of precipitation. Features of isobars and isobars, definition of meteorology and its relation with other sciences, meteorological parameters, concepts of heat and temperature, distribution of temperature on earth.

INGU102 ENGLISH II

This is an elementary English course designed for beginners of English language. The learners are expected to develop four basic language skills; listening, speaking, reading and writing through various kinds of teaching techniques and practices. The learners are exposed to basic language structures and vocabulary with the help of authentic materials within real life context.

RPSI209 POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS (USEC)

Definition of positive psychology, basic concepts, theoretical foundations and applications, emotional experiences and examine the brain behavior of the system's behavior, yourself and recognize others, psikosoyal life skills and problem solving skills, motivation and planning, anger, aggression, violence, relationship management, healthy decision-making, sebatkarlık and agreeableness.

TURK102 TURKISH LANGUAGE II

The course will help students to gain consciousness of language; inclination and habit of reading; proper usage of fundemental spelling and punctuation; and to gain a larger vocabulary set utilization.

RKUL102 UNIVERSITY CULTURE II* (USEC)

14 seminars will be held throughout the week, conferences, panels, workshops and singing Includes've frame Academics at the university, student council it recommends a program of student clubs of his era.

SECOND CLASS - SEMESTER III

CEV227 LABORATORY APPLICATIONS IN ENVIRONMENTAL HEALTH*

Laboratory General and Personal Safety Precautions, Materials and Devices Used, Cleaning of Materials, Measurement methods, Sampling, Preparation of Samples for Analysis, General Analysis Methods, Calculation and Preparation of Solutions, General Tools-Devices and Microscopes Used in Microbiology; Classification and general characteristics of microorganisms; It includes the structure of bacteria, dyes and dyeing methods.

OSG111 OCCUPATIONAL HEALTH AND SAFETY

It includes the definition, importance and purpose of occupational safety, basic principles of occupational safety, danger and danger, occupational safety psychology, occupational safety organization, occupational accidents and occupational diseases.

CEV221 SOLID WASTES (BSEC)

Solid waste definition and classification, Solid waste properties, physical and chemical compositions, Accumulation, collection and disposal methods of urban wastes, Solid waste management, Solid waste disposal methods, Definition and classification of hazardous wastes, Hazardous waste criteria and lists, Hazardous waste management-collection, transportation and disposal methods, solid wastes and hazardous wastes in our country.

MET101 PROFESSIONAL ETHICS (BSEC)

Ethics, Definition of Moral Concepts and Introduction to Professional Ethics, Examining the concepts of ethics and morality, Ethics theories, Principles of Professional Ethics, Justice, Virtue, Honesty, Human Rights, Respect for Others, Privacy, Unethical Behaviors, Professional corruption and the consequences of unethical behaviors in professional life contains.

CEV225 WATER QUALITY AND TREATMENT

Physical, Chemical, Biological and Advanced Treatment Principles, Surface and Groundwater Treatment Principles, Ventilation Systems, Coagulation-Flumping Precipitation Sand Filters in Water Treatment, Water Quality Improvement Methods. Water Quality Criteria and Standards, Hydrological cycle, basin concept, pollutants in surface and underground water environments, water pollution types and sources, water quality classification, stream pollution, lake pollution, state of water resources in Turkey contains.

CEV999 SUMMER INTERNSHIP***

With the theoretical knowledge, the application is carried out (20 working days) in the field.

SECOND CLASS - SEMESTER IV

CEV208 BIOTECHNOLOGY

Definition and history of biotechnology, Importance of biotechnology in the world, Developments in biotechnology, Application areas of biotechnology, Methods used in biotechnology (tissue cultures), Methods used in biotechnology (molecular), Enzymes, Vectors, Genetically modified organisms and their use in agriculture, Genetically modified organisms in terms of environment and production It includes benefits and risks and legal aspects.

CEV230 ECOLOGY

It includes Ecology, Basic Ecological Concepts, Ecosystem and Its Properties, Examination of Ecosystems, Material and Energy Cycles in Ecosystems, Food Chains and Food Webs, Environmental Pollution and Its Effects on Ecosystems.

EFH102 INFECTIOUS DISEASES (BSEC)

Terminology in infectious diseases, Infection chain, Microorganism and its types, Signs and symptoms of infection, Concepts related to infectious diseases, General characteristics of infectious diseases, Protection and immunization from infection, Nosocomial infections and prevention methods, Hospital infection control committee, Infections in the intensive care unit, Infectious diseases treatment methods, Respiratory transmitted diseases, Digestive transmitted diseases, Blood-borne diseases, Skin and mucous membrane-transmitted diseases, Central nervous system infections, Sexually transmitted diseases, Isolation methods, quarantine practices.

GTE116 FOOD HYGIENE AND SANITATION (BSEC)

The relationship between microorganisms and food hygiene includes sources of food contamination, Personal hygiene, Cleaning agents and disinfectants, sanitation practices of food.

ILK101 FIRST AID (BSEC)

General First Aid Information, Human Body, Patient/Injured and Crime Scene Evaluation, Basic Life Support, Respiratory Tract Obstructions, Hemorrhages and Shock, Injuries, Burns, Frostbite, Heat Stroke, Conscious Disorders (Losses of Consciousness, Convulsions, Low Blood Sugar, Chest Pain), Poisoning, Animal Bites, Eye-Ear-Nose, Foreign Objects, Choking, Fractures, Dislocations, Sprains, Transport Techniques.

MYO015 SOCIAL RESPONSIBILITY PROJECT

Introduction to the course, basic concepts, the concept of social responsibility and an overview of social responsibility campaigns, determination of project topics (children, the elderly, women, environmental problems, those with education and learning problems, patients and health problems, etc.) project preparation presentation. It includes the topics of recognizing non-governmental organizations and their work.

CEV226 SOIL INFORMATION AND POLLUTION (BSEC)

Soil terminology includes soil formation, its content, physical, chemical and biological properties, polluting factors on the soil, the effects of air and water pollution on soil pollution, and methods for improving soil pollution.