

OCCUPATIONAL HEALTH AND SAFETY ASSOCIATE PROGRAM

2020-2021 COURSE CONTENT

FIRST CLASS - TERM I

OSG 113 INTRODUCTION TO OCCUPATIONAL HEALTH AND SAFETY (2 + 0) 2, ECTS: 3

Development of Occupational Health and Safety Concepts and Rules, Labor Law, Physical Risk Factors, Occupational Health and Safety Management Systems, Chemical Risk Factors, Biological Risk Factors, Psychosocial Risk Factors, Ergonomics, Emergency Plans, Occupational Accidents, Work Environment Surveillance, Health Surveillance and Occupational Diseases, Personal Protective Equipment, Risk Assessment.

OSG 115 MACHINE AND EQUIPMENT (2 + 0) 2, ECTS: 3

Machine description, Classification of machine elements, Fasteners, Bearings and pulleys, Clutches shafts and axles, Gear wheels, Welding / soldering / rivet / bolt connections, Pin and perno, Furnaces, Steam boilers and operation, Screening and sorting materials, Crushers, Mixers Drilling machines, Pumps, Compressors, Flue filters, Introduction of machines and tools for carrying / lifting / pulling / pushing / digging / drilling / cutting / etching, Hazards that may occur while working and precautions to be taken.

OSG117 ELECTRICAL HAZARDS AND JOB SAFETY (1 + 2) 2, ECTS: 4

The definition and formation of electric charge, current types, electric field, magnetic field, the relationship between current and voltage resistance, factors affecting resistance and conductivity, transformers and transformers, fuse and protective circuits, effects of electricity on the human body are covered in this course.

OSG125 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS AND ORGANIZATION (2 + 0) 2, ECTS: 3

Introduction to Occupational Health and Safety Management System, Development of Occupational Health and Safety Management Systems; ISG Systems and Institutions in the World and Turkey, Occupational Health and Safety Management System in the European Union, International as a subject in our country Occupational Health and Safety Agreements, Occupational Health and Safety Structure of Management System, Occupational Health and Safety Implementation of the Management System, Occupational Health and Safety Management System Implementation Steps, Occupational Health and Safety Management System Certification, Occupational Health and Safety Practice Examples.

RPSI209 INTRODUCTION TO POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS (2 + 0) 2, ECTS: 3

Definition of Positive Psychology and Basic Concepts, Theoretical Foundations of Positive Psychology, The Brain Infrastructure of Social Behaviors, Positive Psychology Practices, Self-Awareness and Awareness, Recognition and Empathy for Others, Psychosocial Living Skills, Motivation and Planning, Problem Solving Skills, Anger, Aggression and Violence, Relationship Management, Persistence,

Healthy Decision Making, Reconciliation.

MYO015 SOCIAL RESPONSIBILITY PROJECT (2 + 0) 2, ECTS: 2

Introduction to the course, basic concepts, the concept of social responsibility and an overview of social responsibility campaigns, determining the project topics (children, elderly people, women, environmental problems, those who have education and learning problems, patients and health problems etc.) project preparation presentation. to recognize non-governmental organizations and their work. 2nd

RKUL 101 UNIVERSITY CULTURE -I (1 + 0) 1, ECTS: 1

Seminars, conferences, panels, workshops and speeches to be held for 14 weeks within the framework of a program consisting of the academic units, student council and student clubs of the university each semester

ATA 101 ATATÜRK'S PRINCIPLES AND REVOLUTION HISTORY- I (2 + 0) 2, ECTS: 3

Ottoman Social and State Order Delay and Reform Movements; Disintegration of the Ottoman State and the Start of the National Struggle; Organization of National Struggle in Mustafa Kemal Pasha in Anatolia; Opening of the First T.B.M.M.; Military and Political Developments Between 1920-1922; Revolutions and Counter-Reactions; Establishment of Constitutional System; Domestic and Foreign Politics in the Republican Era; Basic Features of Turkish Revolution and Thought Movements that are Affected; Innovations in Law, Education, Economy and Social Life; Atatürk's Principles and General Qualifications of These Principles; Evaluation of Kemalism in Ideological Perspective.

TURK 101 TURKISH LANGUAGE I (2 + 0) 2, ECTS: 3

What is Language: Theories about the birth of language, Language-culture-nation relationship; Language Revolution: Turkish Language Institution and its works; World Languages: Language families, the place of Turkish among world languages; Features of Turkey Turkish: Voice properties, Format properties, Sentence properties; Writing rules; Punctuation; Correspondence: CV, Petition, Letter, Business letter, Telegram.

İNGU 101 ENGLISH I (3 + 0) 3, ECTS: 3

Markers; Preliminary Prepositions: Place, Time, Movement; Singular and Plural Names: Countable and Uncountable nouns; Times: Wide time, Present time, Past time structures; Modes: Will, Should, Should not, Must, Must not, Can; Comparative structures; Fairings: Individual titles, Possessive titles; Adjectives; Positive sentence, Negative sentence and Question sentences; Conjunctions: And, But, While-While, Because.

FIRST CLASS - TERM II

OSG108 OCCUPATIONAL HEALTH AND SAFETY LEGISLATION (3 + 0) 3, ECTS: 4

Laws, regulations and regulations related to occupational health and safety, implementation and results

Regarding Occupational Health and Safety in Our Country, The History of Laws, Regulations, Regulations, Other Legal Procedures, Occupational Health and Safety in the Constitution, Occupational Health and Safety, Labor Law, Law of Obligations, Public Health Law, Occupational Health and Safety Law, OHS Legislation Regulations and Regulations, Occupational Health and Safety Regulations, Responsibilities of Employers and Employers' Representatives in the Field of OHS, Building and Add-ons at Workplace, Regulations Regarding Work Safety Measures to be Taken in the Workplace and Materials, Machinery and Equipment, Regulations on Work Order , Task Powers and

Responsibilities of the Occupational Safety Specialist / Legal Sanctions / Criminal and Legal Responsibility, Principal Employer Sub-Employer Relationship, Investigation of Sample Supreme Court Decisions

OSG122 ENVIRONMENTAL HEALTH AND SAFETY (2 + 0) 2, ECTS: 2

Brief history of environmental protection, Factors polluting the environment, Definition and classification of solid and liquid wastes, Industrial wastes, Treatment and recovery facilities, Atmospheric pollution, Environmental pollution and control, Environmental health and effective factors, Environment of the workplace environment Rler (chemical, physical, biological), Physical environmental factors (water pollution, air pollution, wastes, radiation), Social environment. 3

OSG 124 STATISTICS (2 + 0) 2, ECTS: 2

Statistics, data collection, converting data into series and calculation according to the variability measures of the series, probability, analysis with random variables, sampling, hypothesis testing, chi-square test, regression, correlation and calculation with indices

MET 101 PROFESSIONAL ETHICS (2 + 0) 2, ECTS: 2

Defines the concepts of ethics and morality, Ethical Systems, Factors Playing a Role in Moral Formation, Professional Corruption, Ethical and Non-Ethical Issues in Business Life, The Results of Ethical Ethical Conduct, General and Professional Ethical Principles, Occupational Safety Technicians, Values, Values and Ethical Codes .

OSG110 OCCUPATIONAL HEALTH AND SAFETY IN BUILDING WORKS (2 + 0) 2, ECTS: 3

Hazards arising from human, machinery, equipment and materials used in construction works. Learning and implementation of occupational safety measures to be taken in construction works. Legal regulations regarding occupational safety in construction works

RKUL 102 UNIVERSITY CULTURE -II (0 + 2) 1, ECTS: 1

Seminars, conferences, panels, workshops and speeches to be held for 14 weeks within the framework of a program consisting of the academic units, student council and student clubs of the university each semester

ATA102 ATATÜRK'S PRINCIPLES AND HISTORY OF REVOLUTION II (2 + 0) 2, ECTS: 3

Ottoman Social and State Order Delay and Reform Movements; Disintegration of the Ottoman State and the Start of the National Struggle; Organization of National Struggle in Mustafa Kemal Pasha in Anatolia; Opening of the First T.B.M.M.; Military and Political Developments Between 1920-1922; Revolutions and Counter-Reactions; Establishment of Constitutional System; Domestic and Foreign Politics in the Republican Era; Basic Features of Turkish Revolution and Thought Movements that are Affected; Innovations in Law, Education, Economy and Social Life; Atatürk's Principles and General Qualifications of These Principles; Evaluation of Kemalism in Ideological Perspective.

TURK102 TURKISH LANGUAGE II (2 + 0) 2, ECTS: 3

To gain the skill of using mother tongue correctly; In the course where students who have come to the university by acquiring this skill are also essential to produce their thoughts in order to develop their skills in this field, punctuation marks, spelling rules, composition rules, writing types are discussed with examples and writing studies are carried out. In addition, various novels, poetry books

and theater works are read and studied. By making a reading theater in the classroom, applied emphasis and intonation lessons are carried out with various diction techniques.

INGU102 ENGLISH II (3 + 0) 3, ECTS: 3

Tenses: Present tense, Wide tense, Past tense, Future tense structures; Modes: Might, Could, Can, Must, May; Envelopes: Place, Direction, Purpose, State envelopes; Adjectives: Order of adjectives, Comparison, Structures which show superiority; Passive Structure: Present, Wide, Past, Passive structure in the future; Conditional Clauses; Adjective clauses; Transfer Sentences; Verb Structures: TO, -ING; Noun Clauses; Envelope Clauses; Comparative Structures.

OSG999 SUMMER INTERNSHIP (0 + 240) 120, ECTS: 9

Practices to be carried out in OHS departments or Common Health and Safety Units of various enterprises, Practices related to OHS activities 4

SECOND YEAR - SEMESTER III

OSG225 OCCUPATIONAL ACCIDENTS AND OCCUPATIONAL DISEASES (3 + 0) 3, ECTS: 4

Definition of work accident, technical examination, causes of work accident, precarious conditions, precarious behaviors, dangers in work environment, risks of work accidents caused by dangers, measurement and evaluation of risks, precautions to be taken for work accidents. Legal aspect of work accidents, responsibilities, disability accounts, etc.

Definition of occupational disease, occupational diseases caused by physical, chemical and biological factors, prevention measures, disability from occupational diseases, responsibilities.

OSG201 EMPLOYEE SAFETY IN MAINTENANCE AND REPAIR (2 + 0) 2, ECTS: 7

The Concept of Care and Safety, Maintenance and Safety Management, Planned Maintenance, Predictive Maintenance, Preventive Maintenance, Total Productive Maintenance, Maintenance Planning Principles, Maintenance Scheduling Principles, Computer Aided Maintenance Management

OSG233 OCCUPATIONAL HEALTH AND SAFETY IN UNDERGROUND STRUCTURES (2 + 0) 2, ECTS: 4

Introduction to occupational health and safety in mines and its history. Basic concepts on the subject. Legally, occupational health and safety. The effects of the business environment on employees (chemical, physical, biological, psychological and social factors). Problems and solution techniques related to occupational health and safety in mining. Occupational diseases; definition, causes, prevention and consequences. Accidents at work; definition, causes, prevention and consequences. Ergonomics applications in mining. Personal protectors. Expertise in rescuing mines, occupational accidents and occupational diseases cases.

OSG227 OCCUPATIONAL HEALTH AND SAFETY APPLICATIONS I (2 + 8) 6, ECTS: 11

Definition of the course, its purpose, informing about its operation, explaining the difference between the applied course and summer internship and applied rsin To talk about the contributions of the students, to receive the report of the weekly studies of the students, to analyze and evaluate their reports, to evaluate what their students have done during the semester.

OSG237 EMERGENCY AND DISASTER MANAGEMENT (2 + 0) 2, ECTS: 4

Emergency management requirement, Concepts and definitions, Stages of emergency management, Basic services, Additional resource requirement, Private sector resources, Asking for help, Integrated emergency management, Coordination, coordination, Stages, Selection of emergency management team, communication, interdependence, Industrial first aid, Medical first aid, etc.

OSG231 DANGER AND RISK ASSESSMENT METHODS IN OCCUPATIONAL SAFETY (2 + 2) 3, ECTS: 5

Risk Map, Micro Separation Algorithm, Pre-Hazard Analysis (PHA), Job Security Analysis (JSA), What Happens? (What if?), Primary Risk Analysis Using Checklist (Checklist-PRA), Primary Risk Analysis (PRA) Risk Assessment Decision Matrix, L Type Matrix Diagram, Multivariate X Type Matrix Diagram Hazard and Operability Study Methodology (HAZOP) Analysis Methodology (FTA), Possible Types of Failures and Effects Analysis Methodology (FMEA), Security Audit, Event Tree Analysis (ETA), Cause - Result Analysis, Hazard Classification and Rating, in various industries, workplaces, laboratories, etc. By identifying risk factors, people and personnel working in such environments have a very sensitive and conscious approach and inform students about risk analysis methods. 5

SECOND YEAR - SEMESTER IV

OSG228 FIRE HAZARD AND FIRE SAFETY (2 + 0) 2, ECTS: 4

To teach the hazards for chemicals and fire, the factors that cause home-forest fires and the things to be done to take precautions, to know the factors for the formation and growth of fire. What is a fire? The definition of fire and the factors that cause the fire, the causes of the formation of fire, the chemicals that cause it, Explosions and Reasons, the examination of the Fire Regulation, the units and organizations dealing with fire in our country, Examples of fire units in the world, EU standards, Organization in Fire, Communication Techniques, Fire Protection Methods, First The Importance of Three Minutes / Fire Safety Practices, Technical Trip, Examining the measures taken in our school

FIRST 101 FIRST AID (2 + 0) 2, ECTS: 3

General First Aid Information, Human Body, Patient / Wounded and Crime Scene Assessment, Basic Life Support, Respiratory Tract Obstructions, Bleeding and Shock, Injuries, Burns, Freezing, Heat Stroke, Consciousness Disorders (Loss of Consciousness, Remittance, Low Blood Sugar, Chest Disorders Pain), Poisoning, Animal Bites, Eye-Ear-Nose-Foreign Body Escape, Drowning, Fractures, Dislocations, Sprains, Transport Techniques.

OSG206 BIOLOGICAL AND CHEMICAL FACTORS IN THE WORK ENVIRONMENT (2 + 0) 2, ECTS: 4

Overview of Occupational Health and Safety, Environmental Factors Affecting Human Health, Basic Life Unit of Life, Cell, Prokaryotic Cells, Biological risk factors (bacteria, viruses, fungi and protozoa, occupational groups exposed to biological factors and diseases that may be encountered) Chemical risk factors and result Occupational diseases, Physical Risk Factors, Hygiene and Cleaning in terms of Health in the Workplace (The importance of sterilization, disinfection and antisepsis)

OSG210 OCCUPATIONAL HEALTH AND SAFETY APPLICATIONS II (2 + 8) 6, ECTS: 13

Application of theoretical knowledge and skills with internship training in various workplaces related to Occupational Health and Safety. Field research in practice internship. To report the weekly studies of students, to examine and evaluate their reports, to evaluate what their students have done during the semester.

OSG234 ERGONOMY (2 + 0) 2, ECTS: 4

Definition and importance of ergonomics, Relationship of ergonomics with work efficiency, Human body, Physical conditions in work environment, Control and control mechanisms, Loading and strain, Working and resting times, Work tension, fatigue and boredom, Working energy and energy requirements of jobs, Ergonomics with work safety relationship, Ergonomics relationship with occupational diseases, Ergonomics and work study relationship, Ergonomics and quality control relationship, Ergonomic design of work places, Ergonomic examination in workplaces