

DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY

QUALIFICATION AWARDED

The students who succeed in completing the program are entitled to receive the degree of Bachelor of Arts (BA) in Occupational Health and Safety.

LEVEL OF QUALIFICATION

This is a First Cycle Program. (Bachelor's Degree)

SPECIFIC ADMISSION REQUIREMENTS

Higher Education Council (YÖK) in the framework of regulations set by this program called Student admission to the University Entrance Exam is conducted by the central examination system. Students who want to attend the program they reported their preferences according to their score on this exam after the Student Selection and Placement Center (ÖSYM) is placed by the relevant program.

Students who are enrolled in a higher education institution in accordance with the provisions of the relevant legislation, the horizontal transition at the same level of education in other degree programs can earn the right to continue. However, the University's preparatory school, the first and fourth semester of the associate degree programs, first and last year of undergraduate department transfer is not made. Vertical transition of associate degree graduates to be admitted to the University's undergraduate chapters, each year drop vertical pass exam (DGS)'s entry into and specified in the relevant legislation are obliged to get enough points to vertical transitions. University of who fulfill these conditions, those who choose to license section is placed by ÖSYM.

Acceptance of the exchange students, with the Yeni Yüzyıl University bilateral agreements signed between partner university is carried out in the framework of Erasmus.

QUALIFICATION REQUIREMENTS AND REGULATIONS

Occupational Health and Safety Section in the course lesson plan writing these lessons have managed, such as internships and graduation projects work successfully finished and GANO of at least 2.00 Students who have completed university education is considered. For graduation the minimum ECTS to be earned is 240. Students also complete their compulsory internship at the specified time and on the property is obligatory.

RECOGNITION OF PREVIOUS EDUCATION

Students studying at the Yeni Yüzyıl University, some courses may be exempt under certain regulations. The content of the courses taken at the another institution, be appropriate to the course content in Yeni Yüzyıl University and if approved by the Faculty of Health Sciences, students may be exempted from this course.

PROFILE OF THE PROGRAM

Occupational Health and Safety activities, employees, the diseases and accidents to create working conditions that measure, evaluate and study area include all of the necessary precautions. A professional who graduate occupational health and safety currently serves with vision:

1. To increase the capacity of health workers,
2. Employee's health, work environment by determining the causes of any and all harm, destroy or to minimize,
3. Work with employees, employees to keep work.

The students of this department, gained the ability to effectively inform, armed with the ability to think critically, in a passion for lifelong learning and acquiring skills, humanity and beneficial to society, responsible and a contemporary business processes that can be applied at all levels of professionals will graduate to be.

PROGRAM CAPABILITIES

1. Ability at interpretation of the national & international regulations, laws etc in occupational health and safety era.

2. Be aware of the dangers & risks in workplaces, knowledge about the precautions of them and more over the awareness about potential accidents and safety regulations for workplaces specially classified in dangerous class.

3. Ability to assist the risk assessment process at workplaces by using the actual methodologies

4. Capacity to guide the Occupational Health and Safety Management Systems in workplaces with the international acknowledgment

5. Having, applying, implementing and more over forcing the ethical rules in business life and industry

6. Capacity to follow & manage the periodic control processes & surveillance ability at workplaces under the circumstances of Occupational Health & Safety

7. Ability to identify and analyze the problems that arise in working life, generating the solutions based on scientific methods

8. Ability to arrange the training programs for the employees in the frame of the national & international regulations of Occupational Health and Safety

9. Performing registration and reporting activities,

10. Capacity for generating, applying and managing the emergency action plans at workplaces

11. Ability to regulate the process of fire-fighting and prevention

12. Having a proactive approach towards all hazard and risk factors at a workplace as an occupational health and safety specialist.

RELATIONSHIP PROGRAM COMPETENCIES

Total Course-Programme LOs Relationship

NQF-HETR Occupational Health and Safety Program Basic Field Qualifications	YYU Department of Occupational Health and Safety Program Outputs*											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
INFORMATION												
1) They have the advanced corporate and applied information supported by course books containing basic and current information, application tools and multimedia training tools as well as other resources on the field of Occupational Health and Safety.			✓					✓				
2) They have the information on following the national and international standards and legislations related to Occupational Health and Safety.	✓			✓				✓	✓		✓	
3) They have the information on evaluating the nature, source, boundaries, accuracy, reliability and validity of the information.		✓	✓				✓					✓
4) They have the information on reaching the scientific information on Occupational Health and Safety, following, assessing and applying the current literature.			✓					✓		✓		
5) They have the information on curriculum of the field, training strategy, method and techniques as well as measurement and assessment.						✓						✓
6) They have the information on the development, learning features and challenges of students.												✓
7) They perceive and use the interaction between the disciplines related to Occupational Health and Safety department.					✓							
SKILLS												
1) They interpret and assess the scientifically proven data by using the advanced knowledge and skills that they earned in the field of Occupational Health and Safety, identify and analyze the problems, develop solution proposals considering the occupational and ethical values based on researches and evidences, share the knowledge and perform team work.	✓		✓		✓							
2) They use stat-data analysis softwares, technical drawing softwares related to the research field of Occupational Health and Safety.			✓						✓		✓	
3) They develop study fields of occupational health and safety and the educational materials by using the tools and device used in these fields.		✓									✓	✓
4) They produce solutions for field-specific problems in accordance with scientific data/evidences.							✓					

5) They assess gains of the students versatily by using different methods.					✓									
COMPETENCES														
Competence of Working Independently and Taking Responsibility														
1) They independently perform a work by using their advanced knowledge on the field of Occupational Health and Safety and take responsibility as a team member in cooperation with the other occupation groups working in this field.						✓							✓	
2) They take responsibility as individuals and team members to solve unanticipated and complex problems faced in the applications related to Occupational Health and Safety.			✓			✓								
3) They plan and manage the activities for the development of their employees within the framework a project, and monitor and assess the process.			✓				✓	✓						
4) They fulfill their responsibility of producing scientific information specific to their field/make researches on descriptive level.			✓	✓										
Competence of Learning														
1) They assess the advanced information and skills that they earned in the field of Occupational Health and Safety in a critical approach.			✓											✓
2) They determine the learning goals and show that they learned how to learn.							✓							
3) They identify the learning sources, access the sources effectively and fast.										✓				
4) They demonstrate that they embrace the lifelong learning; are open to improvement and continues this behavior.														✓
5) They decide and apply the ways to reach the information.	✓							✓						
Competence of Communication and Sociality														
2) They inform the related individuals and institutions about the issues on the field of sociability; convey their opinions and solution proposals on problems in writing and verbally; listens to the opinions, requests and expectations of related individuals and institutions.			✓											
3) They support their opinions solution proposals for problems on the field of Occupational Health and Safety with quantitative and qualitative data and share those with individuals who are specialist or not as an effective member of the process and within the team work.					✓			✓						
4) They hold and apply projects and activities with consciousness of social responsibility in cooperation with other occupation groups for their social environment						✓								
4) They inform related individuals and institutions about the issues related to their field.	✓													
5) They share their opinions solution proposals for problems with individuals who are specialist or not by supporting them with quantitative and qualitative data.			✓							✓				
6) They follow and assess the events/developments in the field of Occupational Health and Safety within the agenda of the society and world.	✓													✓
7) They communicate effectively in writing and verbally.								✓						
Field-Specific Competence														
1) They set example for the society with their outer appearance, manner, attitude and behaviors.						✓								

ISG239	OCCUPATIONAL AND SAFETY IN CONSTRUCTIONAL WORKS	3	0	4	—	—	—	—	—	4	—	—	—	—	—	—
ISG257	PPE AND SAFETY SIGNS	3	0	4	—	—	—	—	—	4	—	—	—	—	—	—
ISG223	OHS LEGISLATION-I	3	0	5	—	—	4	—	—	5	—	—	—	—	—	—
ISG279	ERGONOMICS	3	0	4	—	—	3	—	—	—	—	—	—	—	—	—
ISG259	DIFFERENTIAL EQUATIONS	3	0	4	—	—	—	—	—	5	—	—	—	—	—	—
SBF255	RATIONAL PHARMACEUTICAL USE	2	0	2	4	—	—	—	—	—	—	—	—	—	—	—
4. TERM																
CODE	COURSE NAME	T	P	ECTS												
ISG206	PHYSICAL RISK FACTORS	3	0	4	5	—	5	—	—	—	—	—	—	—	—	—
ISG208	CHEMICAL RISK FACTORS	3	0	4	5	—	5	—	—	—	—	—	—	—	—	—
ISG214	BIOLOGICAL RISK FACTORS	3	0	4	5	—	5	—	—	—	—	—	—	—	—	—
ISG216	PSYCHOSOCIAL RISK FACTORS	3	0	4	5	—	5	—	—	—	—	—	—	—	—	—
ISG218	OHS LEGISLATION-II	3	0	5	—	—	4	—	—	—	—	—	—	—	—	—
ISG230	EMERGENCY MANAGEMENT	3	0	4	—	5	—	—	—	—	—	—	—	—	—	—
ISG262	OCCUPATIONAL AND SAFETY PRODUCTION AND LOGISTICS	3	0	3	—	—	5	—	—	—	—	—	—	—	—	—
ISG256	PROFESSIONAL DEVELOPMENT AND PROFESSIONAL ETHICS	3	0	3	—	—	—	2	—	—	—	—	—	—	—	—
5. TERM																
CODE	COURSE NAME	T	P	ECTS												
ISG309	FIRE SAFETY	3	0	4	—	—	—	2	—	—	—	—	—	—	—	—
ISG301	EFFECTIVE COMMUNICATION	2	2	4	—	—	—	—	—	4	—	—	—	—	—	—
ISG303	POISONING AND DANGEROUS INDUSTRIAL PROPERTIES	3	0	4	—	—	4	—	—	5	—	—	—	—	—	—
ISG307	ENGINEERING ECONOMICS	3	0	4	—	—	—	—	—	4	—	—	—	—	—	—
ISG305	VENTILATION AND CLIMATIZATION	3	0	4	—	—	3	—	—	—	—	—	—	—	—	—
ISG363	EXERCISES IN WORKERS	3	0	3	4	—	—	—	—	—	—	—	—	—	—	—
SBF357	ENTERPRENEURSHIP-I	3	0	3	—	—	—	—	—	5	—	—	—	—	—	—
ISG327	SCIENTIFIC RESEARCH METHODS	2	1	3	4	—	—	—	—	—	—	—	—	—	—	—
6. TERM																
CODE	COURSE NAME	T	P	ECTS												
ISG308	EPIDEMIOLOGY AND PROFESSIONAL DISEASES	3	0	4	4	—	—	—	5	—	—	—	—	—	—	—
ISG304	SAFETY ENGINEERING METHODS	3	0	4	—	—	4	—	—	5	—	—	—	—	—	—
ISG300	OCCUPATIONAL HEALTH AND SAFETY IN MINING	3	0	4	5	—	—	—	—	—	—	—	—	—	—	—
ISG302	OCCUPATIONAL HEALTH AND SAFETY IN ELECTRICAL WORKS	3	0	4	—	—	3	—	—	—	—	—	—	—	—	—
ISG306	MACHINE EQUIPMENT	2	2	4	—	—	—	—	—	4	—	—	—	—	—	—

İSG332	ACCIDENT ANALYSIS	3	0	5	5	—	—	—	—	4	—	—	—	—	—	—
SBF358	ENTERPRENEURSHIP-II	3	0	3	—	—	4	—	—	5	—	—	—	—	—	—
SBF366	PROTOCOL AND SOCIAL BEHAVIOR	2	0	2	—	—	—	—	—	4	—	—	—	—	—	—
7. TERM																
CODE	COURSE NAME	T	P	ECTS												
İSG401	RISK ANALYSIS AND ASSESSMENT	3	2	5	—	—	—	—	—	5	—	—	—	—	—	—
İSG403	OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS	3	0	5	5	—	—	—	—	4	—	—	—	—	—	—
İSG405	INDUSTRIAL DISASTERS	3	0	5	—	—	—	4	—	—	—	—	—	—	—	—
İSG407	ENVIROMENTAL HELATH AND WASTE MANAGEMENT	3	0	5	—	—	—	—	—	4	—	—	—	—	—	—
İSG409	PERIODIC CONTROLS AND MAINTENANCE REPAIR	3	2	5	—	—	4	—	—	5	—	—	—	—	—	—
İSG423	STATISTICAL SYSTEM ANALYSIS	2	0	2	—	—	—	—	—	5	—	—	—	—	—	—
İSG435	EXPLOSION PROTECTION AND ATEX	3	0	3	4	—	—	—	—	—	—	—	—	—	—	—
8. TERM																
CODE	COURSE NAME	T	P	ECTS												
İSG420	INTERNSHIP	5	0	20	5	—	5	—	—	5	—	—	—	—	—	—
İSG422	GRADUATION PROJECT	0	4	10	5	—	—	5	—	—	—	—	—	—	—	—

OCCUPATIONAL PROFILES OF GRADUATES

Department students, a spacious work area awaits after graduation. If we made a prediction, according to 2008 statistics for our country around 12,000 graduates of the Occupational Health and Safety are needed to be. Occupational Health and Safety in the field equipped with the necessary knowledge and skills, with strategic approaches to protecting the health of employees and take an active role in the development work, the employee's role in a healthy and safe work and effort will have to do.

Employee health and safety is concerned that all businesses, factories, other manufacturing areas, public institutions and agencies, municipalities, military government facilities, banks, hotels and other tourism businesses, in short people and employment is concerned that in all businesses can operate in have a chance. In addition, the Occupational Health and Safety section of the side branches by training, graduating, they automatically will have the right to Occupational Physician. Our students in the Faculty of Engineering, still side branch, by taking a diploma in occupational safety, our industry, they will be one step ahead compared to other graduates, will have a significant advantage. Likewise, nutrition, psychology, physical therapy professions such as owners, they will advantage them in the same way.

ACCESS TO FURTHER STUDIES

Students who graduate from this program, graduate programs may apply to study.

PROGRAMME STRUCTURE

Occupational Health and Safety degree program of not less than 75 course consists of a total of 240 ECTS credits.

- In each semester common compulsory and except II. foreign language courses has a maximum of 8 courses.
- Each program in the Higher Education Act with the Common Compulsory Courses and II. Foreign Language Courses and other common courses determined by the University Senate is located.
- In each semester elective course is projected.
- At least 25% of elective courses are taken from the other faculties.
- Has at least 3 elective courses.

ACROSS THE UNIVERSITY COURSES GIVEN		
University / Faculty Common Courses	<ul style="list-style-type: none"> • Guided Working Hour 	This is one of the common courses should be taken by students at the first class first and second semester.
	<ul style="list-style-type: none"> • General Physics I-II 	This is one of the common courses should be taken by students at the first class first and second semester.
	<ul style="list-style-type: none"> • General Chemistry I-II 	This is one of the common courses should be taken by students at the first class first and second semester.
	<ul style="list-style-type: none"> • Mathematics I-II 	This is one of the common courses should be taken by students at the first class first and second semester.
	<ul style="list-style-type: none"> • Basic Biology 	This is one of the common course that should receive by students first class in the fall semester.
	<ul style="list-style-type: none"> • Graduation Project 	Specific problems of health care businesses and examines issues related to applied research activities and prepare and present a final project.
	<ul style="list-style-type: none"> • Internship 	Except the Department of Nursing, for all departments, second and third class of the end of the spring semester 20 working days internship is

		mandatory.
Common Compulsory Courses (YÖK Courses)	<ul style="list-style-type: none"> Turkish Language I-II The Prin. of Atatürk Hist. of the Turkish Rep. II 	In undergraduate and graduate programs in Turkey, according to the provisions of the Higher Education Act are to be taken as a compulsory course.
	<ul style="list-style-type: none"> English I-II 	Given as second foreign language are compulsory common courses.

THE TEACHING PROGRAM

İSTANBUL YENİ YÜZYIL UNIVERSITY HEALTH SCIENCES FACULTY												
OCCUPATIONAL HEALTH AND SAFETY DEPARTMENT UNDERGRADUATE PROGRAM 2017-2018												
AKADEMİK YIL												
I. YIL												
FALL SEMESTER						SPRING SEMESTER						
CODE	COURSE	T	P	C	ECT S	CODE	COURSE	T	P	C	ECT S	
İSG107	PHYSICS-I	3	0	3	4	İSG138	MATHEMATICS-II	3	0	3	4	
İSG157	GENERAL CHEMISTRY	3	0	3	4	İSG152	SIGN LANGUAGE	3	0	3	3	
İSG133	MATHEMATICS-I	3	0	3	4	SBF150	PROTECTIVE HEALTH AND HYGIENE	3	0	3	5	
İSG153	INTRODUCTION TO OCCUPATIONAL HEALTH AND SAFETY-I	2	0	2	5	İSG112	BASIC INFORMATION TECHNOLOGIES	2	2	3	4	
TRD151	TURKISH LANGUAGE-I	2	0	2	2	ATA152	ATATURK PRINCIPLES AND HISTORY OF REVOLUTION-II	2	0	2	2	
ENG151	ENGLISH-I	3	0	3	3	TRD152	TURKISH LANGUAGE-II	2	0	2	2	
ATA151	ATATURK PRINCIPLES AND HISTORY OF REVOLUTION-I	2	0	2	2	ENG152	ENGLISH-II	3	0	3	3	
İSG163	TOTAL QUALITY MANAGEMENT	3	0	3	3	İSG114	MEDICAL FIRST AID	2	0	2	2	
BMH150	COMPUTER APPLICATIONS	1	2	2	2	İSG142	HEALTH NUTRITION	3	0	3	3	
İSG123	INTRODUCTION TO ACADEMIC AND SOCIAL LIFE	3	0	3	3	İSG108	PHYSICS-II	3	0	3	3	
Selective Courses*						Selective Courses*						
BMH150	COMPUTER APPLICATIONS	1	2	2	2	İSG108	PHYSICS-II	3	0	3	3	
İSG123	INTRODUCTION TO ACADEMIC AND SOCIAL LIFE	3	0	3	3	İSG114	MEDICAL FIRST AID	2	0	2	2	
İSG163	TOTAL QUALITY MANAGEMENT	3	0	3	3	İSG142	HEALTH NUTRITION	3	0	3	3	
		2	2	2	32			2	2	2	30	
		6	6	6				6	7	7		

II. YEAR											
FALL SEMESTER						SPRING SEMESTER					
CODE	COURSE	T	P	C	ECTS	CODE	COURSE	T	P	C	ECTS
İSG235	PROBABILITY AND STATISTICS	3	0	3	4	İSG206	PHYSICAL RISK FACTORS	3	0	3	4
İSG229	BASIC ANATOMY AND WORK PHYSIOLOGY	3	0	3	3	İSG208	CHEMICAL RISK FACTORS	3	0	3	4
İSG239	OCCUPATIONAL HEALTH AND SAFETY IN CONSTRUCTIONAL WORKS	3	0	3	4	İSG214	BIOLOGICAL RISK FACTORS	3	0	3	4
İSG257	PPE AND SAFETY SIGNS	3	0	3	4	İSG216	PSYCHOSOCIAL RISK FACTORS	3	0	3	4
İSG223	OHS LEGISLATION-I	3	0	3	5	İSG218	OHS LEGISLATION-II	3	0	3	5
İSG279	ERGONOMICS	3	0	3	4	İSG230	EMERGENCY MANAGEMENT	3	0	3	4
İSG259	DIFFERENTIAL EQUATIONS	3	0	3	4	İSG262	OCCUPATIONAL HEALTH AND SAFETY PRODUCTION AND LOGISTICS	3	0	3	3
SBF255	RATIONAL PHARMACEUTICAL USE	2	0	2	2	İSG256	PROFESSIONAL DEVELOPMENT AND PROFESSIONAL ETHICS	3	0	3	3
Selective Courses*						Selective Courses*					
SBF255	RATIONAL PHARMACEUTICAL USE	2	0	2	2	İSG262	OCCUPATIONAL HEALTH AND SAFETY PRODUCTION AND LOGISTICS	3	0	3	3
						İSG256	PROFESSIONAL DEVELOPMENT AND PROFESSIONAL ETHICS	3	0	3	3
		2	0	2	30			2	0	2	31
		3	0	3				4	0	4	
III. YEAR											
FALL SEMESTER						SPRING SEMESTER					
CODE	COURSE	T	P	C	ECTS	CODE	COURSE	T	P	C	ECTS
İSG309	FIRE SAFETY	3	0	3	4	İSG308	EPIDEMIOLOGY AND PROFESSIONAL DISEASES	3	0	3	4
İSG301	EFFECTIVE COMMUNICATION	2	2	3	4	İSG304	SAFETY ENGINEERING METHODS	3	0	3	4
İSG303	POISONING AND DANGEROUS INDUSTRIAL PROPERTIES	3	0	3	4	İSG300	OCCUPATIONAL HEALTH AND SAFETY IN MINING	3	0	3	4
İSG307	ENGINEERING ECONOMICS	3	0	3	4	İSG302	OCCUPATIONAL HEALTH AND SAFETY IN ELECTRICAL WORKS	3	0	3	4
İSG305	VENTILATION AND CLIMATIZATION	3	0	3	4	İSG306	MACHINE EQUIPMENT	2	2	3	4

İSG363	EXERCISES IN WORKERS	3	0	3	3		İSG332	ACCIDENT ANALYSIS	3	0	3	5
SBF357	ENTREPRENEURSHIP-I	3	0	3	3		SBF358	ENTREPRENEURSHIP-II	3	0	3	3
İSG327	SCIENTIFIC RESEARCH METHODS	2	1	3	3		SBF366	PROTOCOL AND SOCIAL BEHAVIOR	2	0	2	2
Selective Courses*						Selective Courses*						
İSG363	EXERCISES IN WORKERS	3	0	3	3		SBF358	ENTREPRENEURSHIP-II	3	0	3	3
İSG327	SCIENTIFIC RESEARCH METHODS	2	1	3	3		SBF366	PROTOCOL AND SOCIAL BEHAVIOR	2	0	2	2
SBF357	ENTREPRENEURSHIP-I	3	0	3	3							
		2	3	2	29				2	2	2	31
		2		4					2		3	
IV. YEAR												
FALL SEMESTER						SPRING SEMESTER						
CODE	COURSE	T	P	C	ECTS		CODE	COURSE	T	P	C	ECTS
İSG401	RISK ANALYSIS AND ASSESSMENT	3	2	4	5		İSG402	INTERNSHIP	5	0	5	20
İSG403	OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS	3	0	3	5		İSG404	GRADUATION PROJECT	0	4	2	10
İSG405	INDUSTRIAL DISASTERS	3	0	3	5							
İSG407	ENVIRONMENTAL HEALTH AND WASTE MANAGEMENT	3	0	3	5							
İSG409	PERIODIC CONTROLS AND MAINTENANCE REPAIR	3	2	4	5							
İSG423	STATISTICAL SYSTEM ANALYSIS	2	0	2	2							
İSG435	EXPLOSION PROTECTION AND ATEX	3	0	3	3							
Selective Courses*						Selective Courses*						
İSG423	STATISTICAL SYSTEM ANALYSIS	2	0	2	2							
İSG435	EXPLOSION PROTECTION AND ATEX	3	0	3	3							
		2	4	2	30				5	4	7	30
		0		2								
Total Course Hours (T+P)									189			
Total ECTS									243			
Total Credi									176			
T: THEORY P: PRACTISE C: CREDİ												

EXAM REGULATIONS, ASSESSMENT AND GRADING

Mid-term exams are the exams of which dates and topics to be tested are notified beforehand. The number and dates of mid-term exams are notified to the students by related instructor or

coordinator of course council at the beginning of the year/term/course council. Mid-terms are held within the hours shown on the weekly schedule for that course. Instructors can hold quizzes of which the number and dates are not notified beforehand in a term by sparing a part of the course hour.

The exams may be written, oral or both. The faculty can decide that homework, project or research may replace the mid-term exam by the decision of its board.

Year/term end exams are the exams by which student's knowledge for that year/term is assessed and that have a significant weight in the assessment of their achievement. Students who gained the right to take the final exams of the course(s) that they took but failed at the term or year end and students who could not take the final exam although they had met the criteria for taking exam are entitled to take make-up exams at the end of the academic year for each course which they failed .

Year/term end exams and make-up exams may be written, oral or both. Success rules that are valid for the final exam are valid for make-up exams too, and grade of the make-up exam is recognized as the grade of the final exam.

Notes and numerical equivalents

Instructors assess the results of quizzes, mid-term exams and term end exams by considering the results of make-up exams or similar activities replacing the exam. As a result of these assessments, they assess one of the final grades below as student's final grade in that course:

Success Notes Numerical Equivalent

Letter Grade	Coefficient
AA	4.00
BA	3.50
BB	3.00
CB	2.50
CC	2.00
DC	1.50
DD	1.00
FF	0.00
DZ	0.00

All University departments and programs with 2547 5 of the Act specified in Article Ataturk's Principles and History of Turkish Language and foreign language courses and general education courses for the (AA), (BA), (BB), (CB), (CC), (DC) and (DD) indicates that the

course achieved. (FF) are used for unsuccessful students. (FF) have taken note of a student's weighted grade point average, even if sufficient for success, this course is repeated.

Overall GPA of students who are below 2.00

Students whose GPA is below 2.00 at the end of the fourth semester, can not take lessons from upper semester. In the same way unsuccessful students, 4 lessons from the period following the failed course can not take any lessons.

Successful Students

The success of the students is monitored by Yano and GPA. Students whose YANO are at least 2.00 are considered successful. A period shown in the lesson plan by writing to students who successfully complete all courses YANO from 3:00 to 3:49 of the first semester honor student, 3:50 to 4:00, which would be a high honor student for the semester. 3:50 to 4:00 at the GPA department or program completion, students will graduate as a student of the University's highest honor and is located in the University's honors list. It also indicated on the student's diploma.

GRADUATION REQUIREMENTS

Occupational Health and Safety department of the license contained şn the course lesson plan writing these lessons have succeeded to,suck as internships and graduation projects work successfully finished, students with GPA of at least 2.00 are deemed to have completed education. Diplomat is located in the student's GPA. Licensing department or program will be given to gradutes of undergraduate diploma.

TYPE OF TRAINING

This program is full-time.

HEAD OF THE DEPARTMENT

Prof. Dr. Gönül KUNT

Head of the Department

Istanbul Yeni Yüzyıl University

Faculty of Health Sciences

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ASSESSMENT

Framework of regulations set by higher Education Council (YÖK) admission of students in this program are performed by central examination system called ÖSYS. Students who want to attend the program they reported their preferences according to their score on this exam after, the Student Selection and Placement Center is placed by the relevant program.

Foreign nationals students in this program, which is internationally valid for SAT, ACT test scores or high school graduation as according to note are accepted.

Acceptance of the exchange students, Yeni Yüzyıl University bilateral agreements signed between the partner universities (Erasmus or Academic Protocol) is performed in accordance.

T.C.

ISTANBUL YENI YUZYIL UNIVERSITY

HEALTH SCIENCE FACULTY

OCCUPATIONAL HEALTH AND SAFETY COURSE DESCRIPTIONS

(THEORIC-PRACTICE/ECTS)

İSG157 GENERAL CHEMISTRY (3-0/4)

Basic concepts, Structure and properties of materials, Introduction to atomic theory, Stoichiometry, Chemical bonding, Gases, liquids and solids, Resolutions, Solutions, Chemical kinetics, Chemical equilibrium, Chemical thermodynamics, Electrochemistry, Organic chemistry.

İSG107 PHYSICS-I (2-0/4)

The purpose of this course is to understand the physical quantities, standards, units, vectors, motion in one and two dimension, dynamic, work energy and power, energy conservation, linear momentum and collisions, rotational kinematics, angular momentum, rotational dynamic, static balance and elasticity, simple harmonic motion.

İSG133 MATHEMATICS-I (3-0/4)

Aim of this course is provide the students understand the issues below; integers, rational number, decimal numbers, real numbers, first order equations, exponential numbers, root numbers, factorisation, ratio and proportion, polynomials, clusters, Permutation-Combination, Basic Linear Functions, Non Linear Functions.

İSG153 INTRODUCTION TO OCCUPATIONAL HEALTH AND SAFETY (2-0/5)

Basic concepts, Physical, mechanical, chemical, biological and ergonomic factors which effect Occupational health and safety. National and international organizations, ILO Contracts. Security breaches: Fire, Earthquake and Flood Also, trips to the surrounding factories are organized and observations are made about the Occupational health and safety on its place besides the theoretical studies in the classrooms.

ENG151 ENGLISH I (3-0/3)

In the various branches of Health Management terms and concepts encountered is studied in depth and to ensure the correct use of Turkish-English two-way translations are made and carried out presentations. English language training will be given to students from the ground up, ahead of time is intended to develop.

TRD151 TURKISH LANGUAGE I (2-0/ 2)

In this course, students comprehend the Turkish language in accordance with the structure and function of language in expressing the thoughts through the written and oral expression and use of Turkish as the right and good speaking ability. In this course, the place and importance of language as a social institution, language-culture relationship, such as the spoken language and written language are discussed on the topics are covered and examples of Turkish literature.

ATA152 ATATURK PRINCIPLES AND HISTORY OF REVOLUTION I (2-0/ 2)

In this course, how to set conditions under which the Republic of Turkey, Atatürk's principles form the basis of state explained. The topics covered in this course include: the concept of the Revolution, the collapse of the Ottoman Empire and the Turkish Revolution Look at the reasons, intellectual movements in the late Ottoman period, the disintegration of the Ottoman Empire, the Mudros Armistice, occupations in the face of the situation in his country, the national struggle, the Great establishment of the National Assembly.

İSG163 TOTAL QUALITY MANAGEMENT (3-0/3)

Concept of Total Quality Management, customer orientation, leadership and strategic planing, development and management of human resoruces, brain storm and practice, analyse of cause-effect and practice, applications of real life, gain informations about concepts, principles and techniques and apply to these informations in real life events, analyse, development of talents.

BMH150 COMPUTER APPLICATIONS (1-2/2)

Occupational Health and Safety division is a IT-based so target of this course is which students will be required both personal and business life gives theoretical and practical skills in computer information.

İSG123 INTRODUCTION TO ACADEMIC AND SOCIAL LIFE (3-0/3)

Aim of this course is provide the students understant the issues below; describe project development and management, academical ethics, research technics, developing tools and techniques related to project management, correctly sorts project goals and objectives, decide

on a project study and method based on their individual observations, efficiency, cost and quality plans of the Project, implement the project work, evaluate the results of the study, writing project reports, preparing creative posters, and making presentations.

İSG138 MATHEMATICS-II (3-0/4)

Aim of this course is provide the students understand the issues below, parabol, parabolic equations, specially defined functions, Limit - Limit theorems, uncertainty cases – Continuity, derivative - derivative rules, Increasing and decreasing functions - Extreme points, Indefinite integral, Indefinite integral 2, Indefinite integral 3, definite integral 1, definite integral 2

İSG152 SIGN LANGUAGE (3-0/3)

Aim of this course is provide the students understand the issues below; learning the words and sentence structures in Turkish Sign Language, learning fingerprint alphabet and its applications, to be able to grasp the signs used in finger alphabet and their meanings, helping our hearing-impaired citizens in communicating with their communities and solving the problems in daily life.

SBF150 PROTECTIVE HEALTH AND HYGIENE (3-0/5)

Hygiene definition, Product hygiene, Occupational hygiene and its purposes, Industrial hygiene issues, Responsibilities of OHS specialists and workplace physicians, Occupational hygiene in the legislation, Occupational hygiene program steps, Environment hygiene, Chemical, biological, physical and ergonomic hazards and their assessments, measurement and control methods, Hygiene measures, hygiene measures for the physical factors, Hygiene measures for biological factors, Measures to be taken in the laboratory, Occupational diseases due to physical factors, Occupational diseases due to biological factors, Legislation related to occupational hygiene.

İSG112 BASIC INFORMATION TECHNOLOGIES (2-2/4)

The aim is provided general information about computer. Description Windows OS, Microsoft Office Pocket Programs (Word, Excel, Powerpoint) and apply these programs. In addition, It is given basic information about internet and World wide web.

ATA152 ATATURK PRINCIPLES AND HISTORY OF REVOLUTION II (2-0/2)

In this course, how to set conditions under which the Republic of Turkey, Atatürk's principles form the basis of state explained. The topics covered in this course include: the concept of Revolution, The Turkish Revolution strategy, internal and external policy of the Republic of Turkey (1938-1950), Democratic Party, the period (1950-1960), Turkey's domestic and foreign policy after 1960, 21 century of modern Turkey.

TRD152 TURKISH LANGUAGE II (2-0/2)

In this course, students comprehend as its structure and functioning of the Turkish language and use of the right and good speaking ability. In this course, Turkish language today, as well as issues such as expansion areas, the Reformation and the Turkish Republic, Turkish culture and Turkish are the developments are considered important works of literature are examined.

ENG 152 ENGLISH II (3-0/3)

English course in addition to the terms and concepts encountered in the correct use of English is studied in depth, and the provision made for the Turkish-English two-way translations. Students' in order to master English grammar, sentence structure, spelling and pronunciations to have information about the language is provided.

İSG142 HEALTHY NUTRITION (3-0/3)

Importance of healthy nutrition, constructure, features, resources, digestion, absorption, requires of carbohydrate, protein, fat, vitamin and mines, energy values of foods, spending energy, energy balance and interaction of health.

İSG114 MEDICAL FIRST AID (2-0/2)

Cardiopulmonary resuscitation, oxygen therapy, cardiopulmonary resuscitation, oxygen Hemorrhage and shock, Injuries: soft tissue, internal organs, Injuries: Soft tissue, internal organs, Traumas: limbs, head, spinal cord, chest, Traumas: extremities, warts, head, spinal cord, chest, medical emergencies, poisonings And insect stings, Burn, exposure to hot and cold, Civil defense.

İSG108 PHYSICS-II (3-0/3)

Electric load-field, Gauss Law, electric potential, capacitors and dielectrics, current, resistance, direct-current circuits, magnetic field and forces, magnetic field sources, electromagnetic induction, induction, alternative current, electromagnetic waves.

İSG235 PROBABILITY AND STATISTICS (3-0/4)

At the end of this course students describe data and summarize descriptive relationships, describe categorical and numerical variables and explain the relationships between them graphically, understand the measures of central tendency and variability and examine the relationship between variables, evaluate concepts such as results, events, permutations and combinations, probability, examine discrete and continuous random variables, properties, probability distributions and expectations, apply normal distribution and approximation, use and apply probability distributions, use and apply linear combinations of random variables.

İSG229 BASIC ANATOMY AND WORK PHYSIOLOGY (3-0/3)

This course contains the anatomy of the muscular, skeletal, cardiovascular, respiratory, digestive, excretory, urogenital, endocrine and the neurologic systems.

İSG239 OCCUPATIONAL HEALTH AND SAFETY IN CONSTRUCTIONAL WORKS (3-0/4)

Safety measures to be taken in the constructional works, Safety measures to be taken in the excavation, Safety measures to be taken in the scaffolding and ladders, Safety measures to be taken in making and dismantling reinforced concrete mold, Safety measures to be taken on the stairs, Safety measures to be taken in the demolition, Safety measures to be taken in the machinery and equipment used in construction work, OHS rules in opened and closed areas, Occupational diseases in construction, The difference in overall OHS and OHS about construction works, Storing responsibility of the records in construction sites, Determining costs of occupational accidents in construction sites.

İSG257 PERSONEL PROTECTIVE EQUIPMENT AND SAFETY SIGNS (3-0/4)

The importance of safe working, General protection measures and protective equipments, Equipment using for protecting sense organs such as eyes, ears and physical integrity, Legal basis. Information about warning plate standards, labeling and markings about dangerous substances.

İSG223 OCCUPATION HEALTH AND SAFETY LEGISLATION-I (3-0/5)

International conventions on occupational health and safety, The European Union joint decisions, Constitutional provisions related to occupational health and safety, Laws, statutes and regulations related to the employee's social rights at working life, Responsibilities of employees and employers, The legal rights of employees suffered from working conditions, calculation of their disability values and compensations.

İSG279 ERGONOMICS (3-0/3)

Definition and importance of ergonomics, The relationship between labor productivity and ergonomics, Human body, The physical conditions in the work environment, Regulating and control devices, Loading and strain, Work and rest periods, Work stress, Fatigue and weariness, Working energy and energy requirements of work, The relationship between ergonomics and occupational health and safety, The relationship between ergonomics and occupational diseases, The relationship between ergonomics and work study, The relationship between ergonomics and quality control, Ergonomic design of workplaces, Ergonomic reviews of workplaces.

İSG259 DIFFERENTIAL EQUATIONS (3-0/4)

Basic methods and practices, classify of differential equations, constant coefficient differential equations, 1 st order differential equations. Exact differentials and systems of linear equation. Systems of linear differential equation. Initial value problems. 2 nd order differential equations and serial solutions. High order linear differential equations. Laplace conversions. Types and solutions of equation.

SBF255 RATIONAL PHARMACEUTICAL USE (2-0/2)

This course emphasizes on knowledge about drugs, their classification, therapeutic effects, anticipated reactions, toxic effects and abuse, legal ethical aspects and health workers responsibilities of rational use of medicines. It is designed to guide the students with essential information on drugs and the scientific basis of their actions. The contents to be covered include the general principles of pharmacology involve pharmacokinetics, mechanisms of drug action dose-response relationships drug interaction and adverse effects, and autonomic nervous system pharmacology. The major objective of this course is to provide the health care management students with a background in the fundamental principles of pharmacology and the basic properties of pharmacological agents so as the students progress in the training and allow them to be prepared to use drugs appropriately, safely and effectively. On completion of this course, students will be able to apply conceptual knowledge about the drugs used in different systems of the body and their effects, to ensure safe administration and effective patient education, utilize knowledge of the expected and adverse reactions of medications based on the understanding of the mechanism of actions of the drugs, to facilitate early recognition and effective management of side effects, explain the rationale for using a particular drug(s) for a patient, selects appropriate interventions for drugs given in clinical situations, impart teaching to the patient/family based on accurate assessment of their learning needs, utilize the rational drug use process to evaluate the need for and the effectiveness of the drug(s) given to the patients and relate legal and ethical issues to the administration of drugs.

İSG206 PHYSICAL RISK FACTORS (3-0/4)

Physical factors affecting the health of employees, Diseases caused by factors such as noise, vibration, heat and cold, pressure, radiation, measurement and evaluation of physical factors in the workplace, Protection ways from physical factors.

İSG208 CHEMICAL RISK FACTORS (3-0/4)

Concepts and definitions that determine the hazards of chemicals, Important inorganic materials and their dangers, Important organic substances and their hazards, Radioactive substances and their hazards, Protection ways from chemicals, Risk assessment in chemicals.

İSG214 BIOLOGICAL RISK FACTORS (3-0/4)

Biological factors affecting the health of employees, Microorganisms, microbes, viruses, riketzias and fungi, diseases created by them, Measurement and evaluation of biological factors in the work environment, Protection methods from biological factors.

İSG216 PSYCHOSOCIAL RISK FACTORS (3-0/4)

Psychosocial risk factors affecting adversely health in the workplace, Working environment, Working time and costs, Factors related to managerial and workers, Unionization, Pregnant and nursing workers, Young workers, Mobbing, Stress, Discrimination, Oppression, Business units that has high exposure to psychosocial risk factors, Importance of teamwork and business psychologist in the protection of workers' mental and physical health, The relevant legislation.

İSG218 OCCUPATION HEALTH AND SAFETY LEGISLATION-II (3-0/5)

Basic information and definitions about law, Labor contracts, Cancellation of labor contracts, Working times, Permissions, Occupational health and safety, Case studies, Judicial decisions. Regulations, criminal and legal responsibility. Insurance rights, defination of occupational disease in social safety law.

İSG230 EMERGENCY MANAGMENT (3-0/3)

Disaster and emergency concepts, Events generating disaster and emergency, Stages of the disaster management system, Emergency (crisis) and risk management concepts, Works to be done before, during and soon after the emergency, Creation of the emergency management system, Emergency policy and creation of the planning team, Examining the current legislations, Determination of the sources and the budget, Preparation of emergency plans, Emergency response procedures, Training, exercises and other activities, Sample emergency plans.

İSG262 OCCUPATIONAL HEALTH AND SAFETY IN PRODUCTION AND LOGISTICS (3-0/3)

According to globalization, growing importance of logistics in the industry, loading, unloading, product storage and provision of information relating to road safety. Determination of safety criteria within the framework of safety legislation with the transport conditions requiring special legislation in this regard, the provision of staff training and the necessary protective equipment.

İSG256 PROFESSIONAL DEVELOPMENT AND PROFESSIONAL ETHICS (3-0/3)

Effective communication of the student in social life and business life, monitor developments related to the profession, self-sustained development and therefore to be able to provide

professional development, able to gain the requirements of the profession ethic and these implementation.

İSG309 FIRE SAFETY (3-0/4)

Fire definition and causes, Regulations about building protection from fire, Duties authority and responsibilities, Building usage classification, Building hazard classification, General fire safety for buildings, Building structural system stability, Partitions, roofs and facades, Fire partitions, Fire walls, Building materials, Escape routes, Escape ladders and special circumstances, Building department and facilities, Boilers, fuel tanks and stoves, Shelters, Parking areas, kitchens and roofs, Elevator, Lightning conductors, Transformers, Generators, Electrical equipment, Emergency lighting, Fire detection, Warning systems, Periodic testing, Maintenance and inspection, Smoke control, Air conditioning and ventilation systems, Pressurization systems, Fire extinguishing systems, Foam, gas and dry powder fire extinguisher systems, Storage and use of hazardous materials, Fire safety responsibility, Allowances and instruction.

İSG309 EFFECTIVE COMMUNICATION (2-2/4)

Theoretical principles of positive psychology, Introduction to social cognitive neuroscience, Cerebral infrastructure of social behavior, Science of happiness, Practice of positive psychology, Emotional intelligence, Self awareness, Communication skills, Motivation and planning skills, Problem solving skills, Anger management, Effective listening, verbal-nonverbal communication, Relationship management, Resilience, Healthy decision making.

İSG303 POISONING AND DANGEROUS INDUSTRIAL PROPERTIES (3-0/4)

The definition and classification of hazardous substances, Explosives, Gases, dusts, Flammable liquids, Flammable solids, Oxidizing substances, Toxic and disgusting agents, Radioactive materials, Etchant substances, Other hazardous materials, Dangerousness properties of the substances, Measures to be taken, Control methods, First aid, Selection usage and preparation of tools, equipment, materials and protective equipment.

İSG307 ENGINEERING ECONOMICS (3-0/4)

Basic concepts, Balance of cash flow, Time value of interest and money, Present value method, The annual equivalent method, Future value method, Internal rate of return method, External rate of return method, Evaluation of alternatives, Depreciation, Cash flow analysis

after tax, The effects of inflation on cash flow, Breakeven analysis, Benefit-cost analysis, Renewal analysis.

İSG305 VENTILATION AND CLIMATIZATION (3-0/4)

Ventilation types, moisture, temperature, relative humidity, air saturation, dry air, wet air, psychometry, Mollier diagram and its usage, Ventilation and climatization systems, The introduction of the materials used in climatization and ventilation and their capacity and power calculations, determination of comfort conditions with determining their clean air demand, Finding out the air change amount and rate, Calculating the heat gain and loss accounts in order to determine the climatization plant's power and capacity, Industrial climatization systems and calculating capacity and power for the systems' materials, The channel cross-section calculations, Channels and fittings construction.

İSG363 EXERCISES IN WORKERS (3-0/3)

Proactive precautions to protect the workers' health and safety, The relationship between exercises and nutrition, The relationship between exercises and psychological health, The relationship between exercises and physical health, Development of the pro-active protection policies.

SBF357 ENTREPRENEURSHIP-I (3-0/3)

Information about entrepreneurship is given to the students. Every two weeks, informed about entrepreneurship and biographical information by important people. Namely, made presentation by these people. In other weeks, students are asked to prepare reports on presentations which are made. In this way, students can connect with their departments.

İSG327 SCIENTIFIC RESEARCH METHODS (2-1/3)

Scientific research and reach to scientific information, informed about cause-effect of research problem and determine, data collection tools, sampling in research, data analysis, validity-reliability, academic writing, scientific ethics and research ethics, presentation and course project delivery.

İSG308 EPIDEMIOLOGY AND PROFESSIONAL DISEASES (3-0/4)

Informed about epidemiology and research methods. Explaining occupational health and professional health dimensions, Examination of occupational accidents, Risk factors which

lead to professional diseases, Measures to be taken against disease risks and applications. Informed about statistics of professional diseases and related legislation.

İSG304 SAFETY ENGINEERING METHODS (3-0/4)

Theory on Reliability, Reliability Cost – Benefit Equilibrium, ALARP (ALARA) Decision Making Method, Risk Assessment Theory, History of Risk Assessment, Individual Risk and Social Risk, Geographical Risk, Regional Risk Assessment with fN-Curve, Risk Assessment Methods – General Aspect, Safety in Equipment, Poke – Yoke Systems, Critical Equipment Selection Methods: DOW-F&EI Method, Risk Centered Maintenance (RCM), Risk Based Inspection (RBI) and Industrial Applications, Functional Safety, BOW-TIE Method and LOPA Layers.

İSG300 OCCUPATIONAL HEALTH & SAFETY IN MINING (3-0/4)

Types of Mines, Open Pit Mines and Quarries, Closed Pit Mines, Directive on Occupational Health & Safety in Mine Work Places, Work Accidents in Mines, Major Accidents and Hazards in Mines, Machinery Used in Mines and Safety Precautions, Explosion in Mines, Firedamp Explosions and Dust Explosions, Chemical Risk Factors in Mines, Electricity and Electrical Equipment in Mines, Risks and Safety Precautions, Investigation of Several Major Mining Accidents.

İSG302 OCCUPATIONAL HEALTH & SAFETY IN ELECTRICAL WORKS (3-0/4)

The structure and functioning of the electricity, The usage of electricity, Electrical hazards, Possible work accidents, Occupational safety measures in electrical works, Electrical issues in occupational safety legislation.

İSG306 MACHINE EQUIPMENT (2-2/4)

Definition of machine, Classification of machine elements, Connecting elements, Bearings and pulleys, Clutch shafts and axles, Gear wheels, Welding / solder / rivet / screw connections, Pins, Ovens, Steam boilers and their operations, Separating and sorting equipment, Crushers, Mixers, Drilling machines, Pumps, Compressors, Chimney filters, Transporting / lifting / pulling / pushing / digging / drilling / cutting / grinding machines and the introduction of all these tools, Hazards that may occur using all these tools and measures to be taken.

İSG332 ACCIDENT ANALYSIS (3-0/5)

Learning to prevent to prevent occupational accidents likely to be encountered , take the necessary measures to avoid a further analyze the causes of accidents in workplaces and to have the necessary information for record-keeping. Related statistics, factors that play a role in the occurrence of accidents at work and methods for prevention, recording and notification of occupational accidents, inspection and regulation of the report, to be informed about the relevant legislation.

SBF358 ENTREPRENEURSHIP-II (3-0/3)

Information about entrepreneurship is given to the students. Every two weeks, informed about entrepreneurship and biographical information by important people. Namely, made presentation by these people. In other weeks, students are asked to prepare reports on presentations which are made. In this way, students can connect with their departments.

SBF366 PROTOCOL AND SOCIAL BEHAVIOR (2-0/2)

The purpose of this course is to introduce students to basic concepts which explain behavior in an organizational/institutional setting. Group relationships are analyzed with a particular emphasis on work relationships. While looking at group behavior, individuals will have more insight into their personal attitudes and develop. As a result of this course, students should have a clear understanding of motivation as it relates to productivity, improved interaction with fellow workers, develop strategies for global business relations, awareness for effective communication skills and improved work environments. At the end of this course students have information about organizational behavior and development process, organizational learning process, learning organizations, organizational culture, motivation theories, leadership approaches, organizational commitment, organizational justice, organizational citizenship, organizational change, organizational development, attitude, conflict in organizations, group and team, stress management.

ISG401 RISK ANALYSIS AND ASSESSMENT (3-2/5)

Hazard and risk concepts, Risk management, Risk analysis process, The theoretical basis of risk analysis, Uncertainty and variability in risk analysis, Hazard identification and Risk analysis methods (qualitative and quantitative methods), Risk assessment, Risk perception and communication, Control and monitoring, The investigation and recording process of the accidents in the workplace, The development of safety management plans.

ISG403 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS (3-0/5)

OHS management, Creation of OHS policy, Planning studies in the field of OHS, Investigating and re-measuring work accidents and incidents, Accident analysis methods, Field inspections.

ISG405 INDUSTRIAL DISASTERS (3-0/5)

History of Industrial Disasters, Types of Industrial Disasters and Consequences, International Regulation, SEVESO I-II-III Directive, Directive on Protection from Hazards of Industrial Disasters, Safety Report and Prevention of Major Accidents Policy Documents, Quantitative Risk Assessment and sub-components, Investigation of Several Industrial Disasters, Industrial Disasters Modelling.

ISG407 ENVIRONMENTAL HEALTH AND WASTE MANAGEMENT (3-0/5)

A brief history of environmental protection, Environmental pollution factors, The definition and classification of solid and liquid waste, Industrial waste, purifying and recycling facilities, Atmospheric pollution, Environmental pollution and its control, Environmental health and its efficient factors, Workplace environmental factors (chemical, physical, biological), Physical environmental factors (water pollution, air pollution, waste, radiation), Social environment. In addition, informed related legislation and waste management.

ISG409 PERIODIC CONTROLS AND MAINTENANCE REPAIR (3-2/5)

General overview of machine types, control and maintenance theory, informed about use of work equipment health and safety requirements, maintenance and control methods, periodic controls of machine tools and equipment, steam and central heating boilers, liquid and liquefied gas tanks, lifting and forwarding tools, stacking machines, scaffolding, elevators, fire equipments, electrical installation and equipments. Maintenance and occupational safety concept, Maintenance and safety management, Planned maintenance, Predictive maintenance, Preventive maintenance, Total productive maintenance, Maintenance planning principles, Maintenance scheduling principles, Computer aided maintenance management.

ISG423 STATISTICAL SYSTEM ANALYSIS (2-0/2)

Recognition the SPSS pocket program. Informed about data entry and analysis, coding, surveying methods, reliability analysis, normalization test and types, kinds of the parametric and non-parametric tests, standard deviation, mean, median average, classification, error analysis, skewness, kurtosis, reading and interpreting the output datas.

İSG435 EXPLOSION PROTECTION & ATEX (3-0/3)

Explosive atmosphere, Combustion and Combustion Theory, Physical and Chemical Properties of Explosion, Types of Explosion, International Regulation, Directive on Protection of Workers from Hazards of Explosive Atmosphere, Hazardous Area Classification, EN60079-10-1 & 2 Standards, Calculation of Explosive Atmosphere with Standard Methodology, Zone Mapping of Explosive Atmosphere, ATEX Equipment and ATEX Equipment Categories, Explosive Atmosphere & Explosion Modelling.

İSG402 WORKPLACE EDUCATION (INTERNSHIP) (5-0/20)

Including the different sectors of services, the study of requirements in different fields and engineering services aimed at meeting students from different work areas, the period of performance of sectoral technical visit in great shape by groups and service details are executed as making presentations in class at learned in the field.

İSG404 GRADUATION PROJECT (0-4/10)

Examination of the thesis or paper samples, Determining different research issues with students, Planning research about specific topics, Discussion of related research applications, Reporting research.