

**ENGLISH SPEAKING COURSES**

**2021/2022**

**Winter and Summer Semester**

	<b>Course</b>	<b>Description</b>	<b>ECTS</b>
1	<b>Labour law</b>	Bases of labour law in reference to: <ul style="list-style-type: none"> <li>- international sources of labour law</li> <li>- contracts of employment (concluding and dissolving the contract)</li> <li>- employee's and employer's obligations and the consequences of not performing them</li> </ul>	3
2	<b>Economic psychology</b>	The subject discusses, among others, types and determinants of consumer's decisions, including individual, social and cultural decisions	4
3	<b>Bases of coaching</b>	Interactive developmental process aimed at dealing with organization and communication problems within organization. This process accelerates the effects of actions, decision making and allows to achieve goals	3
4	<b>Advertising and public relations</b>	The subject is aimed at practical introduction to the basic issues related to planning and implementing advertising and the public relations strategies. Issues related to the functions and models of advertising, impact strategy, brief and media plan will be discussed. It will also present the public relations components and tools, with particular attention to corporate identity	3
5	<b>Professional ethics</b>	The subject discusses such key ethical issues as sources of ethics, the nature of good and evil, the problem of value conflicts, and specific issues related to the professional ethics of the police, in particular such values as human dignity, justice, impartiality, loyalty and others	3
6	<b>Advertising strategy and public relations</b>	The subject discusses various forms and strategies of creating advertising and image messages on the internet in a practical way. It is run in the form of laboratories using computers. Students learn	4

		the basics of creating a website based on Wordpress, creating messages in various social media, content marketing strategy, and advertising in the Google AdWords program	
7	<b>Practical English grammar</b>	The subject aims at practicing various issues related to English grammar: tenses, articles, passive voice, reported speech, conditional sentences, gerunds, infinitives, relative sentences, etc. The classes are based on doing exercises taken from various sources	5
8	<b>Speaking</b>	The aim of the speaking class is to develop students' ability to freely express themselves in English on everyday as well as more academic topics. The class uses the method of role-play and simulation to make students' interaction as natural as possible	3
9	<b>Listening comprehension</b>	The listening comprehension class develops the students; ability to comprehend various registers of spoken English. The class makes use of genuine recordings of natural English	3
10	<b>Reading comprehension</b>	During the reading comprehension class the students develop the ability to understand advanced written texts representing various genres and registers. The class uses the methods of skimming and scanning as well as guessing the meaning of words from the context	3
11	<b>Introduction to literature and culture of English speaking countries</b>	This course combines the knowledge of the history of English and American literatures together with the cultural background of literary epochs. The students study samples of the masterpieces of English and American literatures against cultural background	3
12	<b>Introduction to linguistics with elements of descriptive grammar</b>	The subject is an overview of major linguistic theories and covers all the levels of linguistic analysis: phonology, morphology, syntax, semantics and pragmatics	4
13	<b>Communication and media in crisis management</b>	The subject discusses the issue of media influence and the concept of propaganda, different values and models of information, the way modern media create images of the world in our mind, the relationship between word and image and the ways of editing and constructing news	3
14	<b>Crisis management</b>	The subject concerns the procedures applied in the crisis situations. The students will practice simulated crisis situations and learn how to behave in them	6

15	<b>Critical infrastructure</b>	The students will learn what is meant by critical infrastructure, how important it is for the security of the country and what steps should be taken in case of crisis situation	3
16	<b>Emergency medical service and providing first aid</b>	The subject deals with medical and legal procedures applied by medical service in case of emergency. The students will also learn basic first aid techniques	
17	<b>Fire protection</b>	The course deals with procedures applied in counteracting the danger of fire outbreak. The students will learn how to fight different types of fire, i.e. what means are to be used to eliminate different sources of fire	2
18	<b>Strategic management</b>	The subject deals with learning what strategic decisions must be taken which enable smooth functioning of the company and its survival. Special attention will be paid to planning, organizing and control systems as well as the influence of the environment on the development of the company	6
19	<b>Special forces</b>	The subject deals with the system, types and structure of special forces and their role in preserving the security in the country. The students will critically analyze specific situations in which special forces were used	4
20	<b>Defensive hand-to-hand combat techniques</b>	This class is of a practical character. The students will learn about the most frequently used hand-to-hand combat techniques and try to practice them in simulated situations	4
21	<b>First aid in the conditions of intervention</b>	The subject is devoted to the procedures applied in providing first aid to the victims of intervention. The students will practice different intervention situations and will learn how to apply first aid in them	3

22	<b>Project Management</b>	This course develops the competencies and skills for planning and controlling projects and understanding interpersonal issues that drive successful project outcomes. Focusing on the introduction of new products and processes, it examines the project management life cycle, defining project parameters, matrix management challenges, effective project management tools and techniques, and the role of a project manager.	3
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23	<b>Mathematics</b>	Higher algebra (determinants and matrix calculus). Mathematical analysis (overview of elementary functions, sequences, numerical series, functional series, limits of functions, differential calculus and its applications, elements of integral calculus.	6
24	<b>Computer modeling of industrial processes</b>	Presentation of main elements of physical processes modeling. Interpolation, approximation (introduction of the input data to the computer program), numerical differentiation, boundary and initial problems, finite difference method, examples of the method application in the designing process	3
25	<b>Logic</b>	Definitions of logic, scope of lectures, information about the history of logic, elements of semiotics, classical propositional calculus, bivalent logic, tautologies and counter-tautologies, inference, truth and logical falsehood	3
26	<b>Heat transfer</b>	Ways of heat transfer, heat conduction, Fourier law, steady and transient heat conduction (Fourier-Kirchhoff equation), the examples from the scope of engineering practice. Radiation, the basic laws, radiative heat exchange between surfaces, brightness balance. Convection, the Newton law, the ways of heat transfer coefficient in the case of natural and forced convection. Short information concerning the types and designing of heat exchangers	5
27	<b>Information technology</b>	The aim of the course is to acquire proficiency in using office application: MS Word, MS Excel and MS Power Point as well as proficiency in using the selected services of the internet network such as: electronic mail or browsing the www resources	3
28	<b>Chemical technology and industrial biotechnology</b>	Within the framework of the subject the following topics will be presented: criteria of optimization of technological process, stages of designing new technology, selected technological processes (e.g.. petrochemical industry, plastic industry, plastic processing industry, sodium industry, sulphuric acid industry) and biotechnological processes (e.g. in medicine). Within the subject the	5

		students will prepare a technological project with the use of stoichiometric and thermodynamic measurements	
29	<b>Automation and robotics of production processes</b>	The essence of the subject is presenting the basic elements of automation and robotics applied in industry. The aim of the subject is presenting to the students the theory connected with automation and robotics of industry as well as presenting advantages and disadvantages of the presented solutions	5
30	<b>Informatics</b>	Relational database. Building a relational database – Microsoft Access . Creating tables, queries, forms, macros and reports. Design of own database	3
31	<b>Technical physics</b>	Mechanical movement, frame of reference, movement, speed, acceleration, force, dynamics of material points, equations of movement, energy, momentum, laws of behaviour, dynamics of rigid body, rotation, angular velocity, inertia tensor, deformable bodies, elasticity, oblique, uniform motion in a circle, rules of Newton’s dynamics, gravitation, gravitation field, Kepler’s laws. Elements of partial physics and thermodynamics: hydrostatics and hydrodynamics, flow of non-viscous liquid, laminar and turbulent flow, Reynolds’ number. Elements of optics, lasers, light properties, refraction and refraction coefficient, diffraction, light interference, lenses, image creation, spectroscopy, laser – principles of operation and types of lasers, coherence, light polarization, birefringence, twist of polarization plane and its analytic importance	3
32	<b>Physical threats in work environment</b>	Electromagnetic radiation, noise in work environment, mechanical vibrations and shakes, visible radiation, ionizing radiation, dustiness in work environment, air quality in workplace	4
33	<b>Advanced measurement technologies</b>	Physical bases of laser functioning, properties of laser radiation, types of lasers. The rules of designing devices and measurement systems for special conditions (explosive atmosphere). Laser measurements of vibrations (laser and optoelectronic detectors, Doppler vibrometry). Optical methods of work environment control – measurements of the characteristics of ultraviolet	3

		<p>radiation. Photoacoustic methods in the measurements of small gas concentrations and in the examination of explosiveness. Analysis of the technical state of machines and devices with the use of thermography and holographic interferometry. Optical methods of dustiness measurement, especially in work environment</p>	
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