

ENGLISH SPEAKING COURSES

2025/2026

Winter and Summer Semester

	Course	Description	ECTS
1	INTRODUCTION TO LINGUISTICS WITH ELEMENTS OF DESCRIPTIVE GRAMMAR	The subject is an overview of major linguistic theories and covers all the levels of linguistic analysis: phonology, morphology, syntax, semantics and pragmatics	4
2	AUTOMATION AND ROBOTICS OF PRODUCTION PROCESSES	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
3	ADVANCED MEASUREMENT TECHNOLOGIES	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 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	3
4	ADVERTISING AND PUBLIC RELATIONS	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	ADVERTISING STRATEGY AND PUBLIC RELATIONS	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 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	4
6	BASES OF COACHING	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
7	CHEMICAL TECHNOLOGY AND INDUSTRIAL BIOTECHNOLOGY	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 students will prepare a technological project with the use of stoichiometric and thermodynamic measurements	5

8	COMMUNICATION AND MEDIA IN CRISIS MANAGEMENT	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
9	COMMUNICATION IN INTERNATIONAL TEAM	<p>Culture as a source of identification and distinctiveness - understanding culture, culture and nature, areas of culture, team and communication as a cultural creation; relativism, universalism and cultural pluralism; ethnocentrism, multiculturalism, multiculturalism, globalization, nationalism, cultural and national identity, acculturation.</p> <p>Typology of cultures in terms of business - dimensions of cultures and their characteristics: the concepts of G. Hofstede and F. Trompenaars, behaviors typical of given representatives of cultures.</p> <p>Barriers and differences in intercultural communication - the issue of otherness and strangeness in the cultural and intercultural context, cultural shock, stereotypes and prejudices, other cultural barriers; differences in verbal and non-verbal communication, review of basic gestures and their meanings in different cultures</p> <p>Organization and culture - communication in a team, specificity of vertical and horizontal communication; structure, motivation, control, leadership in the organization; market advantage; multinational business organizations; the impact of communication technologies.</p> <p>Communicative and intercultural competences - the most important communication competences; the principle of assertive communication, building relationships, communication focused on solving a problem in an international team; the most important intercultural competences</p>	6
10	COMPUTER MODELING OF INDUSTRIAL PROCESSES	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
11	CONTEMPORARY ECONOMICS PROBLEMS	<p>Identifying the main economic problems of the modern world. Identification of factors influencing economic events and processes. Profit and ethics in business.</p> <p>The role and importance of national economies in the era of integration and globalization in the context of the invisible power of capital - transnational corporations.</p> <p>Integration and separation processes in the modern world with particular emphasis on the European Union.</p> <p>The problem of indebtedness of national economies and its consequences.</p> <p>Comparative analysis. Types and scope of intervention policies aimed at balancing budgets. Consequences of growing public debt.</p> <p>Economic growth and development. Diversified approach to the problem in different economies.</p> <p>Analysis of indicators of socio-economic development in selected countries. The diversity of the North-South world. Unfair distribution of goods.</p> <p>The contemporary consumer and his/her economic behavior in the context of the disproportion between the life status of the poor and the rich.</p>	4

		<p>Analysis of households in terms of economic, demographic, religious, cultural and social factors. Consumer choices and economic rationality in the age of globalization. The concept of consumption dematerialization.</p> <p>Unemployment and its various forms.</p> <p>Analysis of economic, social and psychological consequences. Unemployment and poverty. Attempts and methods of minimizing the problem in different countries. Consequences of social and economic state interventions in the implementation of transfer payments</p> <p>Additions: types, economic and non-economic effects.</p> <p>Problems of social dysfunctions and pathologies (alcoholism, drug addiction, prostitution, pedophilia, mobbing, domestic violence, crime). Scope of intervention and economic costs of these activities. Human rights. The problem of the rule of law in Central and Eastern Europe.</p> <p>Natural environment and the depletion of mineral resources.</p> <p>Degradation activities and environmental costs. Sustainable development as a perspective of further civilization progress.</p> <p>Economic and technological wars.</p> <p>Techniques of waging an economic war: applying the policy of economic sanctions and additions, development aid. Dependencies related to the state policy and economic conditions. Selected examples.</p> <p>Contemporary conflicts: technological, pandemic, armed, ethnic, political, religious.</p> <p>Terrorism, issues of organized crime and trafficking in human beings, migration problems in Europe and the world and their economic consequences. Presentations of student studies on a selected problem.</p>	
12	CRISIS MANAGEMENT	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
13	CRITICAL INFRASTRUCTURE	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
14	CULTURAL DIFFERENCES	<p>Acquisition by students of comprehensive knowledge of the cultural profiles of different cultures, blocking factors in intercultural management and other theoretical issues and practical skills</p> <p>Acquisition by students of practical skills in the field of intercultural management in practice, learning the principles of problem solving by increasing cultural awareness and awareness other cultural differences.</p> <p>Basic knowledge concerning the domain of management</p> <p>Student has the knowledge of different cultures' cultural profiles, blocking factors in intercultural management, and is acquainted with the theory and practice of cross-cultural management.</p> <p>Student can analyze differences between models of intercultural management, and possesses practical skills from the area of intercultural management.</p> <p>Student is aware of cultural differences, while recognizing the need to constantly develop his/her knowledge due to the character of ongoing integrative processes and globalization.</p>	3
15	DEFENSIVE HAND-TO-HAND COMBAT TECHNIQUES	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

16	ECONOMIC PSYCHOLOGY	The subject discusses, among others, types and determinants of consumer's decisions, including individual, social and cultural decisions	4
17	ELEMENTS OF BUSINESS LAW	<p>The place of business law in the legal system. Division of business law into private business law (commercial) and public business law. Sources and basic rules of business law.</p> <p>The rule of social market economy and its elements. The freedom of business activities, the primacy of private property and solidarity, dialogue and cooperation of social partners.. The right to a fair trial in business matters, business dimension of the rule of democratic state ruled by law</p> <p>The freedom of business activities and its limitations. Free, licensed and requiring permission activities. Registration in the Central Register and Information on Economic Activity and National Court Register. Basic contracts in economic relations.</p> <p>Chief rules of public procurements. The protection of competition and consumers - main rights of the consumer and duties of the seller. The basic rules of bankruptcy and remedial law as well as consumer bankruptcy law.</p> <p>Commercialization, privatization and reprivatization processes. Non-commercial partnership. Characteristics of commercial companies.</p>	3
18	EMERGENCY MEDICAL SERVICE AND PROVIDING FIRST AID	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	1
19	FIRE PROTECTION	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
20	FIRST AID IN THE CONDITIONS OF INTERVENTION	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
21	FUNCTIONING OF MULTINATIONAL CORPORATIONS	<p>To acquaint students with the history of the formation and functioning of multinational corporations from different countries of origin in a comparative approach. Presentation of the role of multinational corporations on a global scale, for the home country and the host country, in the light of the processes of globalization, internationalization and the effects of the global crisis</p> <p>Acquisition by students of the ability to analyze the evolution of models of the organizational structure of multinational corporations and their strategies. Analyzing the forms of relationships and connections between corporations.</p> <p>Presentation of practical information on the similarities and differences in the functioning of corporations in various industries</p>	2
22	HEAT TRANSFER	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

23	INFORMATICS	Relational database. Building a relational database – Microsoft Access . Creating tables, queries, forms, macros and reports. Design of own database	3
24	INFORMATION TECHNOLOGY	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
25	INTERNATIONAL ASPECTS OF LOGISTICS	<p>Logistic services</p> <ol style="list-style-type: none"> 1. Essence and aim of logistic services 2. Evolution of performing logistic services 3. Models of logistic service providers: 2PL, 3PL, 4PL and 5PL 4. Groups of logistic functions according to H.CH.Pfhol and other classifications 5. Basic IT systems in logistics <p>Specialistic logistic services in international markets</p> <ol style="list-style-type: none"> 1. Road transport - AETR convention, the essence of cabotage and transit., 2. Transport of dangerous materials according to ADR, RID, DGR, ADN and IMDG-C 3. Main assumptions of oversized transport. 4. Inter-branch transport(intermodal, multimodal, combined, bimodal transport and transshipment systems). <p>Systems and solutions supporting logistic operations on international market</p> <ol style="list-style-type: none"> 1. Systems supporting document management (DMS, PDM, workflow) 2. Systems and standards supporting identification of products in the supply chain (GS-1, RFID, EPC, Traceability standards) 3. Systems supporting transport and shipping (TMS, freight exchange) 4. Systems supporting storage operations (systems of delivery notification. systems of picking 5. supporting: pick-by-voice, pick-by-point, pick-by-light, pick-by-frame, tools for modelling logistic processes). 6. Modern solutions in logistics (automation, VR/AR, RPA). <p>Management of international logistic processes</p> <ol style="list-style-type: none"> 1. The essence of process management. 2. The scope of process management(knowledge, organizational, personal, economic-financial, IT) 3. Stages of analysis of logistic processes. 4. Analysis of added value and waste in logistic processes. 5. 5. Selected Lean Management tools. 	3
26	INTERNATIONAL MARKETING STRATEGIES	<p>Introduction to the subject. Internationalization and globalization of enterprises</p> <p>The concept of international and global marketing and its genesis, implementation and significance. The essence of determinants of action strategies in international marketing and its place in the overall marketing strategy of the enterprise.</p>	3

		<p>Internationalization of enterprises. Strategies of enterprises entering foreign markets and its stages. The strategy of the company's presence on the foreign market. Dynamic approach versus static and behavioral approach to internationalization. Strategy of standardization and adaptation - compromise actions. Selected problems of marketing mix on international markets (product, price, promotion, distribution). Standardization and adaptation of the marketing strategy on international markets. Factors increasing the globalization potential of the group (industry) and enterprises.</p> <p>Theoretical and methodological foundations of the analysis and planning of marketing strategies on the international market.</p> <p>The international environment of enterprises (political and legal, economic, social, cultural, religious and technological environment). Competitive environment of enterprises on international markets.</p>	
27	INTRODUCTION TO LINGUISTICS WITH ELEMENTS OF DESCRIPTIVE GRAMMAR	The subject is an overview of major linguistic theories and covers all the levels of linguistic analysis: phonology, morphology, syntax, semantics and pragmatics	4
28	INTRODUCTION TO LITERATURE AND CULTURE OF ENGLISH SPEAKING COUNTRIES	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
29	LABOUR LAW	<p>Bases of labour law in reference to:</p> <ul style="list-style-type: none"> - international sources of labour law - contracts of employment (concluding and dissolving the contract) - employee's and employer's obligations and the consequences of not performing them 	3
30	LISTENING COMPREHENSION	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
31	LOGIC	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
32	MANAGEMENT CONCEPTS	<p>Challenges for modern management. Organization in a global environment, multiculturalism, instability. Situational management and emerging strategies. Leadership crises. Management as a specific skill, advantage and talent. Features of the manager of the XXI century. Determinants of managerial excellence (efficiency and effectiveness).</p> <p>Overview of selected approaches to management: management ways of setting goals,, evolution of goal-setting management, Strategic Scorecard; management via tasks, management via results, management via communication and motivation, management via exceptions, management via formalization, management</p>	6

		<p>by conflict. Quality-oriented management methods (KAIZEN). Characteristics of the approaches in question and the assessment of their advantages and disadvantages from the point of view of the manager.</p> <p>Management in the multicultural environment (diversity of organizational cultures, culturation curve). The concept and types of cultures. The impact of organizational culture (organizational climate) on the way the company works. Typology by G. Hofstede- dimensions of cultures. Problems related to the functioning of the organization in a multicultural environment. Benefits of the threat to the functioning of a multicultural team.</p> <p>Innovation management. Reactive and proactive changes. Sources of resistance to changes. Roles in the process of change (animator, supporter, implementer, sponsor). Commitment map and force field analysis - tools used to illustrate the change. Management of virtual and network organization. Examples of organizations operating in the virtual world. Network creation and operation – basic concepts, relationships and conditions.</p> <p>Knowledge management. Public and hidden knowledge. Codification of knowledge. Ways to protect the organization from losing knowledge related to the departure of employees. Learning organization and its features. Teamwork. Selection of team members. Team roles, team development phases, internal and external determinants that affect the effectiveness of the team's functioning. Discussion on the concept of management and choosing the right concept for the needs of the selected XYZ organization.</p>	
33	MANAGEMENT OF INTELLECTUAL CAPITAL	<p>The origins of intellectual capital. The concept of intellectual capital (intangible assets). Difficulty in finding unambiguous definitions. Analysis of selected definitions. An attempt at extracting elements of intellectual capital. Relationships between the components of intellectual capital.</p> <p>Management of intellectual capital as a process: identification and categorization, measurement and storage of information on intellectual capital, protection of intellectual capital held, enlargement and renewal of intellectual capital (building a corporate culture), the dissemination of the concept of intellectual capital.</p> <p>Selected concepts of the intellectual capital management process: A. Brooking (Formulating a market strategy. Management of intellectual property. Selection of instruments for shaping the organisation. Knowledge Management.), L. Edvinsson, M.S. Malone (Analysis of Scandia Navigator results. The concept of actions towards the creation of KI-based values. Creating the area for knowledge transfer. Capitalization of the process), T.A. Stewart (Diagnosis of defects. Indication of knowledge assets. Development of the plan. Management of a knowledge-based organization).</p>	6
35	MATHEMATICS	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
36	PHYSICAL THREATS IN WORK ENVIRONMENT	Electromagnetic radiation, noise in work environment, mechanical vibrations and shakes, visible radiation, ionizing radiation, dustiness in work environment, air quality in workplace	4

37	PRACTICAL ENGLISH GRAMMAR	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
38	PROFESSIONAL ETHICS	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
39	PROJECT MANAGEMENT	<p>The history of project management. Basic definitions: the essence and parameters of the project, roles in the project management team, project lifecycle, Project Business Justification, project management methods. Project objectives, project types and examples. Project environment.</p> <p>Decision-making process – types of design decisions, decision-making process and its stages, barriers to decision-making. Organization of the project team – rules for creating the project team, organizing the work of the project team, managing the project team, roles in the project team</p> <p>Project planning, project scope and project structure, project course planning, project resource planning, conflicts, and team communication. Evaluation, monitoring and control of the project. Characteristic of projects aimed at achieving specific objectives</p> <p>Closing the project. Uncertainty and risk in the project. Basic principles of risk management in the project, the benefits of risk management. Project efficiency assessment; the concept of expenditure, identification of fixed and variable costs. Pricing policy for products introduced. Elements of financial reporting in ongoing projects</p> <p>The concept of innovation and the essence of innovation. Classification of innovations. The process of innovation and methods for finding innovative solutions. Stimulating innovation. Innovation strategies. Innovation management. The risk of innovation.</p>	5
40	PSYCHOLOGY IN MANAGEMENT	<p>Introduction to psychology in management. The essence and objectives of the science of mechanisms of people's behaviour in the organization. The concept of organization and organizational structure. The issue of matching an employee and organization and the concept of optimal work. Meaning, motives and functions of the work (explicit and hidden). Organization metaphors.</p> <p>Organizational culture and its impact on employee activity. The concept, classification, functions. The concept of cultural diversity. The concept of organizational climate. The atmosphere in the organization. Manifestations and components of culture: symbolism, ways of communication, rituals, values, myths, taboos, leadership and management styles, structures and systems in an organization. Types of company cultures.</p> <p>Individual behaviours in the organization. Psychological mechanisms regulating human activity. The role of cognitive, emotional and motivational processes and personality. Motivation and efficiency. The concept of motivation strength. Motivation and needs. Selected theories explaining work motivation. A man in learning organization. Creative thinking. The concept of personality and the main ways of defining personality. The concept of the "big five" personality factors. Individual resources of employees.</p>	6

		<p>Group behaviours in the organization. The concept and characteristics of the social group. Group processes and group thinking traps. Informal organization structure (small groups, clicks, system of connections). Team of employees. Organization of teamwork and types of team tasks. Belbin's classification of roles contributing to success in a group. Roles which hinder teamwork</p> <p>The concept of management and management process. Management levels. History of modern management theories. Management styles. Basic typologies of managerial activity. The concept of efficient management and determinants of managerial effectiveness. Authority and leadership. Management, management and leadership. Social impact in the organization. The role of interpersonal trust in leading people.</p>	
41	READING COMPREHENSION	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
42	SPEAKING	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
43	SPECIAL FORCES	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
44	STRATEGIC MANAGEMENT	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
45	TECHNICAL PHYSICS	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