



CATALOG OF ELECTIVE DISCIPLINES

For students in the direction of preparation GB61 «Information and communication technologies»

Brief description of the elective disciplines of the educational program

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	Component of subjects	Number of credits	Level of training	Cafedra	Courses	Academic period	Pre-requisites	Post-requisites	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
B057 - «Information technology»	GB06103 - «Computer Engineering»	Full-time (bachelor 4 years) trimester	Basics of anti-corruption culture	OAK 2119	GER	Elective subjects	5.0	Bachelor	Economy	2	1	History of Kazakhstan, Political science and sociology	Cybersecurity, Firewall, IT Management Methodology, IT project management and entrepreneurship	The discipline examines the theoretical and methodological foundations of the concept of "corruption" and examines the improvement of socio-economic relations of the Kazakh society as a condition for combating corruption, psychological features of the nature of corrupt behavior, formation of anti-corruption culture, features of formation of anti-corruption culture of youth, ethnic features of formation of anti-corruption culture, moral and ethical responsibility for corruption in various spheres. Discipline allows you to learn about legal responsibility for corruption offenses	Analyze in a logical and quantitative way the conditions for the development of production and evaluate the competitiveness of created products on the principles of engineering, study innovative entrepreneurship and anti-corruption culture, formulate inventions	Basics of economics and law, Ecology and life safety fundamentals, Leadership and team management, Technological entrepreneurship
B057 - «Information technology»	GB06103 - «Computer Engineering»	Full-time (bachelor 4 years) trimester	Basics of anti-economics and law	OEP 2125	GER	Elective subjects	5.0	Bachelor	Economy	2	1	History of Kazakhstan, Political science and sociology	Cybersecurity, Firewall, IT Management Methodology, IT project management and entrepreneurship	The discipline promotes knowledge of the subject of economic theory and methods of research, the basis of public production and forms of public economy, the mechanism of functioning of the market system, production, costs and income of the firm, national economy. Give an assessment of economic growth and instability of the market economy, inflation and unemployment as manifestations of economic instability. Demonstrate knowledge and skills in the financial and monetary credit system in the national economy and economic security. To master the basics of the theory of the state and law, the basics of constitutional, administrative, civil, labor, family, criminal law.	Analyze in a logical and quantitative way the conditions for the development of production and evaluate the competitiveness of created products on the principles of engineering, study innovative entrepreneurship and anti-corruption culture, formulate inventions	Basics of anti-corruption culture, Ecology and life safety fundamentals, Leadership and team management, Technological entrepreneurship
B057 - «Information technology»	GB06103 - «Computer Engineering»	Full-time (bachelor 4 years) trimester	Technological entrepreneurship	TP 2126	GER	Elective subjects	5.0	Bachelor	Computer science	2	1	Cultural studies and psychology, Information and communication technologies	Introduction to BIG DATA Technology, IT Management Methodology, IT project management and entrepreneurship	Study modern concepts and tools of entrepreneurship and gain theoretical knowledge and practical skills necessary to launch your own startups. Reveal ideas about modern trends in innovative development, analyze and assess the risks of innovative start-up projects. Idea. Startup team. The target audience. Value proposition. Customer development. Customer discovery. Estimating the size of the market (minimum viable product). Marketing funnel. Promotion tools: how to attract first users. Investments. Sources of investments. Preparing a pitch for investors. Innovation systems and clusters. Corporate networks and technology alliances in the innovation process.	Have an idea about the basics of the economy, anti-corruption culture, ecology, life safety and the main provisions of the current legislation of the Republic of Kazakhstan. To use professional knowledge and skills in entrepreneurial activity, in management role and for solving problems in innovative projects and research being developed.	Basics of anti-corruption culture, Basics of economics and law, Ecology and life safety fundamentals, Leadership and team management
B057 - «Information technology»	GB06103 - «Computer Engineering»	Full-time (bachelor 4 years) trimester	Ecology and life safety fundamentals	EOBZ2h 2127	GER	Elective subjects	5.0	Bachelor	Ecology	2	1	Cultural studies and psychology, Political science and sociology	Basics of Green Networking, IoT Technology, IT Management Methodology, IT project management and entrepreneurship, Networking and System Administration	The laws of ecology, as a theoretical basis for nature conservation and rational natural resource management, the relationship of organisms with environmental factors and habitat conditions, the anthroposphere concept of V.I. Vernadsky, concepts and concepts of sustainable development.	To be able to analyze the influence of environmental factors on the vital activity of living organisms and the environment; Possess the basis of economic and legal knowledge in the forestry sector, know and understand the goals and methods of state regulation of the economy. Evaluate and integrate the basic theories of motivation, leadership and power to solve strategic and operational management tasks, understand the importance of the principles and culture of academic integrity and anti-corruption culture.	Basics of anti-corruption culture, Basics of economics and law, Leadership and team management, Technological entrepreneurship
B057 - «Information technology»	GB06103 - «Computer Engineering»	Full-time (bachelor 4 years) trimester	Leadership and team management	LUK 2128	GER	Elective subjects	5.0	Bachelor	Management and marketing	2	1	Cultural studies and psychology, Kazakh (russian) language	IT Management Methodology, IT project management and entrepreneurship	The function of a leader in modern society. The history of the birth and development of leadership psychology. Personal characteristics of the leader. The concept of the team, types of teams. Forming effective teams. Team management. Socio-psychological structure of the team. Team management problems. Peculiarities of behavior in a group: group thinking and group pressure as a means of influencing its participants.	Recognize the importance of personal career development based on improving professional level and features of management and marketing activities. Develop innovative and investment projects on the basis of standard methods, taking into account the current legal acts to attract investments in conditions of risk and uncertainty of the market economy.	Basics of anti-corruption culture, Basics of economics and law, Ecology and life safety fundamentals, Technological entrepreneurship

