Subject-specific competencies of students who complete undergraduate program of Information Systems and Technology

- Research, analysis, design and implementation of business processes and organisation;
- Planning, organising, handling and controlling the business process, undertaking, functions and organisations;
- The ability to solve problems using specialised methods and procedures;
- Thorough comprehension and understanding of the subject matters one is dealing with;
- Combining knowledge acquired in different fields during the course of studies and the practical application of said knowledge;
- Keeping track of and applying contemporary, up to date information related to covered subject matter;
- Use of modern information-communication technology and software support;
- Insight into the political, economical, social, technological and legal environment of a company;
- Independent execution of experiments, statistical processing of the results as well as formulating and bringing forth the appropriate conclusions;
- Decision-making through the development of alternative directions of action, taking into consideration available resources, possible restrictions and organizational values;
- The ability to work within a group (team work), as well as the ability to work and communicate with different cultures and professions.
- Ability to create and evaluate the organizational solutions for problems, using specialized methods and techniques of support for strategic and operational management of technology in the company; team work experience by fulfilling assignments of problem analysis and critical thinking based on innovative companies' examples; software applications used in solving concrete problems and tasks in their assignments.
- Application of methods, models and techniques supporting innovation design and new product/service projects management supported by software solutions and reporting and valuation of intellectual property regarding knowledge and intangible assets in a company.
- Ability to critically evaluate environmental problems and contribute to their suitable and sustainable solutions
- Thorough comprehension and understanding of different HRM activities, policies and practices
- The ability to solve HR-related issues using specific methods and procedures taught within the course
- Combining knowledge acquired in different fields during the course of studies and the practical application of said knowledge
- The ability to communicate with members of different ethnic, cultural, religious, social and class groups.
- Knowing and understanding of cultural diversity.
- Knowing and understanding of the value framework of different societies.
- Understanding the social and political environment.
- Understanding the social-structural context of the social environment.
- Understanding the relationship between scientific and technological development and social change.
- Understanding the interaction between ecology and society.
- Developing subject-related written and spoken language production in English, taking part in discussions and oral presentations and producing grammatically correct and coherent writing, particularly related to job application process.
- Further development of subject-specific written and spoken language production in English, taking part in more professionally-oriented discussions and oral presentations and producing grammatically correct and coherent writing.
- Employing a variety of pre-reading and pre-writing techniques, demonstrating clear and structured composition skills, editing, proofreading and critically evaluating different academic genres and developing academic presentation skills.
- Developing subject-related written and spoken language production in French, taking part in discussion and oral presentation and producing grammatically correct and coherent writing, particularly related to job application process.
- Further development of subject-specific written and spoken language production in French, taking part in more professionally-oriented discussion and oral presentation, and producing grammatically correct and coherent writing, particularly related to job application process.

- Developing the essential language skills necessary for integration into French communities of higher education, and familiarizing the students with the structure of the French university system as well as the lives of students studying in France.
- Management of group dynamics considering the key factors in the group structure and the nature of the group processes in order to attain desired group goals.
- Application of the knowledge of the effects of the relationship between organizational complexity and human potentials on organizational goals.
- Understanding the principles of planning, organization and implementation of learning units as a part of teaching process.
- Ability to capture marketing insights using quantitative and qualitative methods, shape the market offering and build strong brand.
- Capability to manage value delivery, and multichannel communications with stakeholders, as well as relations with stakeholders taking into consideration business and social environment.
- Students acquire competences to managing production and service management systems through education for modeling, application of methods, techniques, technical resources and organizational tools for defining solutions, designing their application and management of solutions, by using modern information systems and Internet technologies: ERPs, spreadsheet applications and VBA.
- Collection, preparation, and analysis of various quantitative data, and making appropriate conclusions and decision making through methods of multivariate statistics and statistical inference.
- Modelling of business and organizational systems and solving practical optimization problems using quantitative methods
- Applying quantitative techniques for multi stage processes, project planning, inventory management and queuing theory
- Mathematical modelling for efficiency evaluation and comparative analysis of decision-making units using data envelopment analysis
- Strategic and analytical thinking and application of concepts of game theory in modeling and solving real-world problems
- Reliability analysis and risk management in business and organizational systems using quantitative methods
- Providing practical financial management problems solutions for enterprises in different industries and investment banks.
- Creation, analysis and control mechanisms for financial analysis in marketing and sales.
- The ability to analyze, formulate and implement organizational strategy across different business units and different organizational levels.
- The ability to apply project management processes through project management knowledge areas, combining technical, contextual and behavioral competencies in project management.
- The ability to prepare and evaluate pre feasibility and feasibility study through project lifecycle.
- The ability to prepare, design, execute and sustain strategic, organizational, technical and people related changes and change management plans.
- Elucidation and mastering basic economic categories and economic laws; linking economic concepts as abstract categories with practical economic life; proper orientation in identifying important economic events in one country, but also on a global level;
- The economic analysis of issues that characterize the processes of economic development.
- Developing skills relevant to various strategies of contemporary business economics; identification of challenges linked to business growth and business competitiveness; identifying business costs and in-depth analysis of cost dynamics; mastering different approaches of pricing strategies and how to gain profit for a company; economical aspects of business networking; understanding the process of business planning; learning how to differ and assess strategic and operational business goals; practical aspects of writing and executing a business plan for new entrepreneurial business.
- Developing skills relevant to business cost management process; identifying a strategic approach to cost management; mastering the process of planning business costs; mastering the managerial approach of calculating business costs and prices; developing business prices under different types of market conditions; understanding the process of cost control measures for business.

- Developing skills relevant to international management of companies – approaches, models and business practice; assessment of internal and external business environment; distinguishing various entry modes strategies; gaining skills on how to create competitive advantage as a manager in international business; learning about transformation management and the impact of business restructuring on efficiency; stimulating logical thinking for international managerial decision making processes; learning how to manage international company in global environment.
- Developing skills relevant to virtualization of business; assessment of performance measurement in the digital economy; understanding network externalities and application of pricing methods; learning about virtual value chain and the benefits of outsourcing; gaining skills on how to improve profitability in the digital economy; practical aspects of developing business plan for new business venture in the conditions of the digital economy.
- Developing multidimensionality of individual entrepreneurship and *start-up*; identifying and selection of business ideas, business plan writing, methods of providing the necessary resources, the realization of business ideas; fostering entrepreneurial business and entrepreneurial culture; measuring the success of entrepreneurial business; learning about entrepreneurial processes and creativity.

Subject-specific competencies of study group Management:

- Ability to understand comprehensive issues of strategic and operational technology management, technology transfer, and commercialization.
- Application of methods, techniques, technical resources and organizational tools for defining solutions to problems in the field of strategic and operational technology management and small and medium sized entreprises development.
- Application of methods, models and techniques supporting innovation design and management, including tools and techniques for creative thinking and problem solving, idea management software, innovation selection and evaluation methods and software tools.
- Ability to critically evaluate environmental impacts and contribute to their suitable and sustainable solutions for effective management and adequate decision making process in organizations of any type and size.
- Ability to understand complex environmental issues, problems and contents, with the developed capacity to think creatively in applications of new knowledges for emerging and fast growing environmentally aware markets.
- The ability to solve problems of design, implementation, measurement, and improvement of business and work processes, by using specific industrial and management engineering methods and techniques in organizational systems.

Subject-specific competencies of study group Oprations Management

- Ability to understand comprehensive issues of strategic and operational technology management, technology transfer, and commercialization.
- Application of methods, techniques, technical resources and organizational tools for defining solutions to problems in the field of strategic and operational technology management and small and medium sized enterprises development.
- Application of methods, models and techniques supporting innovation design and managing innovation projects, including tools and techniques for creative thinking and problem solving, idea management software, innovation project management software based on gating models, innovation selection and evaluation methods and software tools.
- Ability to identify and manage the intellectual property rights, reporting and valuation of intellectual capital regarding knowledge and intangible assets in a company.
- Ability to critically evaluate environmental impacts and contribute to their suitable and sustainable solutions for effective management and adequate decision making process in organizations of any type and size.
- Ability to understand complex environmental issues, problems and contents, with the developed capacity to think creatively in applications of new knowledges for environment.
- The ability to create and evaluate solutions for problems of design, implementation, measurement, and improvement of business and work processes, location, layout, work methods, work and performance measurement, and job evaluation systems by using specific industrial and management engineering methods

and techniques in organizational systems.

- The ability to solve different problems in CIM, such as cell location and layout, part sequencing, line balancing, etc.
- The ability to perform production flow analysis and quantitative analysis of AGV and AS/RS system.
- The ability to understand and improve logistics and supply chain processes.
- The ability to apply specific lean logistics and SCM concepts, models, methods, and tools in production and service companies (e.g. MRP, DRP, LFL, FOQ, EOQ, SS, SCOR, QR, VMI).
- The ability to apply approaches, tools and models of maintenance management, warehouse management, distribution management, transport management and inventory management.

Subject-specific competencies of study group Quality management

- Ability to understand comprehensive issues of strategic and operational technology management, technology transfer, and commercialization.
- Application of methods, techniques, technical resources and organizational tools for defining solutions to problems in the field of strategic and operational technology management and small and medium sized enterprises development.
- Ability to critically evaluate environmental impacts and contribute to their suitable and sustainable solutions for effective management and adequate decision making process in organizations of any type and size.
- The ability to solve problems of design, implementation, measurement, and improvement of business and work processes, layout, work methods, and job evaluation systems by using specific industrial and management engineering methods and techniques in organizational systems.