Bachelor Course of Technical Management

The aim of the master course is to foster the development of students by providing them with relevant knowledge, and capabilities; through supporting them in attaining the adequate attitude, autonomy and responsibility regarding their chosen field of study.

Knowledge

- Knowledge of general and specific natural and technical scientific, business and management scientific principles, rules, relations, and procedures as required to pursue activities in the special technical field.
- Knowledge of the production implements of the closer special technical field, as well as the conditions and rules of their operation.
- Knowledge of the basic facts, relations, limits, and limitations of the knowledge and activity system of the special technical field.
- Knowledge and understanding of the organizational and operational procedures of technical processes in the special field.
- Knowledge of the real, human, and socio-economic interrelations of production and service processes, and their impact on health and safety.
- Knowledge of the basics, requirements, and relations of the special fields of business and management science (management, production management, quality management, project management, innovation management, environment management, product management, logistics management, strategic management, business management, information management, marketing, economics, law) linked with the special technical field.
- Knowledge of the main procedures and methods of the design, economic viability analysis, and technical implementation of investments and development projects.
- Knowledge of the methodology for performing environmental impact assessments and for compiling impact studies, as well as the basics of regal regulation.
- Knowledge of the learning, knowledge acquisition, and data collection methods of the special fields of technical management, their ethical limitations and problem-solving techniques.
- Knowledge of technologies of the closer special technical field.

Capabilities

Able to apply the general and specific natural and technical scientific, business and management scientific principles, rules, relations, and procedures acquired for solving routine tasks in the special technical field.

- Able to understand and process technical and economic documentations.
- Able to manage, organize, and supervise technical, technological, investment, manufacturing, logistics, quality assurance, and IT processes, as well as to coordinate their development.
- Able to produce business plans, to complete tasks for decision preparation, and to develop and implement innovation strategies.
- Able to lead workplace teams, to manage human resources.
- Able to manage information.
- Able to perform operational tasks in production management.
- Able to analyze products and market opportunities, as well as to sell products and services with a technical content.
- Able to collaborate actively in the sales of products and services supplied in the special area concerned.
- Able to operate corporate and institutional management subsystems.
- Able to take part in and coordinate the work of teams involved in process and operations development.
- Capable to cooperate and establish contacts; endowed with communication skills.
- Sense of responsibility, sense of quality, capabilities of evaluation, self-evaluation, analysis and synthesis.
- Able to assess and manage investment needs as well as to perform technical and profitability surveys related to investments.
- Able to operate and apply softwares supporting their special field as a user level.

- Able to apply in practice as well the regulations and requirements of health and safety, fire protection, and safety engineering as related to their special field.
- Able to interpret and utilize information on health preservation; to apply health development skills and information; to form a workplace environment in support of health and efficiency.
- Able to communicate and present in a professionally adequate manner, verbally and in writing, in the mother tongue and in one foreign language.
- Able to process and utilize domestic and international references.

Attitude

- Open to the general and specific knowledge and skills forming a basis for the special technical field.
- Compliance with the legal, ethical, and professional regulation systems of work and employment.
- Efforts to make decisions by taking legal regulations and ethical norms fully into consideration.
- Efforts to make decisions by being aware of the opinions of the colleagues supervised, possibly in cooperation therewith.
- Efforts to foster professional development by on-going self-education and development training.
- Comprehensive system approach.

Autonomy and responsibility

- Guided collaboration with specialists of the special technical field in specific project implementation.
- Ability to manage independently the technical, economic, and human resources processes of production and service companies.
- Ability to manage organizational operations independently.
- Independent selection and use of relevant problem solving systems in completing analysis tasks pertaining to their special field.
- Realistic evaluation of own work results.
- Ability to work independently and to consider professional issues even in unexpected decision making situations.
- Taking responsibility for professional decisions.
- Taking responsibility for the work processes controlled and performed by them.
- Assuming responsibility for views serving as a basis for their special field.
- Sense of responsibility for sustainable development.
- Sense of responsibility for workplace and subordinates.