

Master's study program

INDUSTRIAL MANAGEMENT

Graduate profile

In addition to practical education in the field, this allows students to gain interpersonal experience in communication and project management in real conditions. Teachers use modern interactive methods and approaches in their subjects (simulation, demonstration) and emphasize linking theoretical and practical skills. Often too they use case studies or interactive management games in their subjects so that students understand the issue in detail and acquire the disciplines and skills it needs every manager moving in an international environment.

As part of profiling subjects, students become more familiar with a balanced combination of the following disciplines:

- **Managerial and economic**
 - Managerial economics, International Management, Creative and innovative management, and Financial management;
- **Industrial management**
 - Production management, Supply chain management, Quality management tools, Industrial informatics;
- **Technical and technological**
 - Modern automobile production, Design, and construction of machines, Electrical and electronic systems.

Students acquire practical management skills not only as part of the mandatory professional engineering practice at of domestic or foreign industrial enterprises with a global scope, but also thanks to teaching, within, in which they regularly meet with experts from practice, undergo skills training in the school's top manufacturing logistics laboratory, or take part in regular excursions to leading industrial manufacturers. Practical experience is further developed during the preparation and defense of the diploma thesis, which is as well as mandatory engineering practice focused on issues directly related to the given study program.

Thanks to the Erasmus+ program, students can spend a semester or two at one of more than thirty partner universities university school. Škoda Auto University offers other very interesting opportunities for gaining foreign experience projects outside of Erasmus+ in destinations such as China, India, South Korea, or the USA.

The study program is intended for graduates of managerial-industrial, economic-technical and technical bachelor's fields, mainly engineering-oriented.

It is particularly suitable for students who have completed the theoretical foundations of industrial management and economics or engineering and are looking for follow-up studies that are practically oriented and aimed at knowledge of real industrial practice. For graduates of the Škoda Auto University in the bachelor's study program Industrial Management is a direct link to the presented program.

The industrial management study program educates professionals who have management competencies and decision-making in the current market environment both theoretically and thanks to professional engineering practice and practically focused subjects and at the level of application. Within economic and managerial subjects, the study program covers all key aspects of the value creation of business entities, namely especially in the conditions of engineering, or the automotive industry (which is the backbone of the Czech economy).

A graduate of the follow-up master's study program in Industrial Management has knowledge and skills from economics and management, industrial production.

The field of general economics and management includes knowledge and skills of theoretical and applied economic and managerial sciences, such as managerial economics, management with a focus on the international business environment and innovation, financial management, and corporate accounting, which enable the graduate to understand, evaluate and terminologically correctly communicate theoretical and practical aspects of doing business in a market economy environment.

The field of industrial management includes knowledge and skills of the latest concepts, tools, and methods of production and logistics management, quality management, and industrial informatics, which enable the graduate to analyze, evaluate, improve, plan, and manage the processes of an industrial enterprise at its tactical-strategic management level. In addition, attention is paid to comprehensive planning and management of production and their resources, management of logistics activities within the supply chain, improving the quality of business processes, and the use of modern information and communication technologies within the framework of effective management of the company and its supply chain.

The technical and technological part of the program is focused on knowledge and skills of technically oriented disciplines, which are mechanical parts and electrical and electronic systems of a car, modern car production, and machine building. Furthermore, designing single-purpose machines, transport, and handling equipment used in production operations in the automotive industry. The main emphasis is placed on the physical essence of the technical principles used in the design and manufacture of automobiles, the construction of automobiles, technical calculations, and the technological procedures of automobile production and assembly. These professional competencies from the field of mechanical engineering are complemented by knowledge from the fields of electrical engineering, electronics, and automatic control, applied both in their cars and in the process of their production.

Graduates of the study program also possess advanced computer control skills, can effectively use available software applications, and work with modern communication and information technologies. The graduate can clearly and intelligibly formulate his thoughts and communicate in the English language both in spoken and written form. At the same time, he possesses extensive social competencies, mainly related to effective communication and presentation skills, as well as the ability to cooperate and work in a team and solve problems and conflicts.

Application of graduates

The Industrial Management study program provides the graduate with a comprehensive professionally oriented master's education, which enables him to work in manufacturing and non-manufacturing companies as a middle or top management worker, a specialist in a professional department, or a consultant within the framework of production management, industrial engineering and the management of technical projects of enterprises or in the field of technology management and production automation. In technical positions in the field of mechanical engineering, he is capable of independent creative activity in the field of designing machine components and their groups, including computer skills, as well as a production and assembly technologist and a designer of handling or single-purpose equipment. In technical positions in the field of electrical engineering, he is capable of independent creative activity in the field of designing electrical and electronic systems of cars and equipment used for manipulation in industrial production.