

Management and production engineering – 6 semester

Lp.	Subject	Description	Semester	ECTS credits	Number of hours for the form of education						Form of passing	
					Lecture	Exercise	Practical classes	ZK	PS	PZ	Exam	Credit
1.	Design of Production Systems	This course covers methods for designing and optimizing production systems, including layouts and workflows. Students will learn to create efficient and effective production layouts.		3	15	-	30				-	x
2.	Design of Industrial Plants	Students will learn the principles of designing industrial plants, considering technical, economic, and ergonomic aspects. They will learn to create plans for facilities that maximize productivity and minimize costs.	6	3	15	-	30				-	x
3.	Data Analysis	This course focuses on techniques for analyzing large datasets using statistical and programming tools. Students will acquire skills in processing and interpreting data.	6	3	15	15	30				-	x
4.	Business intelligence	Students will learn tools and techniques that support decision-making processes in organizations. They will learn to create reports and analyses that facilitate strategic management.	6	3	15	-	30				-	x

5.	Human Resources Management	This course covers managing human resources, including recruitment, employee development, and compensation management. Students will learn effective personnel management methods.	6	3	15	30	-				X	X
6.	Professional Ethics	Students will explore ethical principles in various professions and their practical application. They will learn to identify and resolve ethical dilemmas.	6	3	15	30	-				X	X
7.	Marketing in Trade and Services	This course discusses marketing strategies specific to the trade and services sectors. Students will learn to create effective marketing campaigns.	6	3	15	30	-				-	X
8.	Customer Relationship Management	Students will learn techniques for building and maintaining long-term relationships with customers. They will learn to manage customer interactions to increase loyalty.	6	3	15	30	-				X	X
9.	Finance	This course covers basic financial topics such as budgeting, financial analysis, and investment planning. Students will learn to make financial decisions at the enterprise level.		3	15	15	-				X	X
10.	Quality Engineering	This course focuses on techniques and tools for ensuring quality in production and service processes. Students will learn to identify and eliminate sources of errors.		3	15	-	30				X	X
11.	Innovative Processes and Patent Policy	Students will learn the principles of introducing innovations in enterprises and issues related to intellectual property protection. They		2	30	-	-				-	X

		will learn how to effectively manage innovation processes and patents.										
12.	Integrated ERP Systems (I-scala)	This course covers an introduction to ERP systems and their application in enterprise resource management. Students will learn to use the I-scala system to optimize business processes.		2	-	-	30				-	x
13.	Pre-diploma Seminar	Students prepare for writing their diploma thesis by participating in seminars where they discuss their projects and receive substantive support.			4	-	-					
14.	Professional Practice III	Students gain practical professional experience in selected companies, applying theoretical knowledge in practice.		8	-	-	240				-	x
	Total:			42 ECTS								