Professional Academic Qualifications BSc The graduate is able to identify, comprehend, assess, correctly apply, and integrate existing scientific knowledge that can be used for analysing problems and designing solutions, in the domains of: Production and logistics; Information systems; Finance and accounting; Other fields in business administration (law; marketing; human resources; entrepreneurship); Mathematics, statistics, empirical research methods. The student has a global overview of the **structure of research and design processes.** The student is able to: Identify the various steps in performed research and design **A1** Properly break up own research and design activities into subprocesses These processes are intertwined: Research is needed for producing knowledge that is used for designing solutions in a specific context. Such knowledge is produced in a purposeful and methodical way (using scientific research methods). It may or may not be generalizable knowledge The student has an overview of quantitative and qualitative **empirical research methods.** The student is able to: **A2** Analyse performed research as to the methodological aspects Select an appropriate method and explain this choice for research to be performed Apply this method in relatively simple cases The student has an overview of quantitative modelling techniques for operational processes, specifically in the domains of Operations research models Information systems models **A3** Finance and accounting models The student is able to: Analyse the results of modelling activities Select an appropriate modelling technique and explain this choice • Apply this technique in relatively simple cases. The student is able to **integrate** existing knowledge, modelling techniques, and research results for designing, validating, and selecting solutions in relatively simple cases. Α4 This is challenging, because existing knowledge may not fully apply to a specific situation, models are always stylized, empirical research always has limitations, and some aspects have been left out of scope from the beginning anyway The student has an overview of **implementation methods and processes**. The student is able to: **A5** (critically) Analyse ongoing or finished implementation processes Plan globally an implementation process in a relatively simple case The student has an overview of evaluation methods and techniques. The student is able to: **A6** Analyse the results of performed evaluations Select appropriate evaluation methods and explain this choice Carry out an evaluation in relatively simple cases In order to be able to meet these competencies, the graduate must have mastered the following disciplines: Mathematics and statistics - [2] (see Legend) Finance and accounting - [2] (see Legend) Α7 Production and logistics - [2] (see Legend) Information systems - [2] (see Legend) Law, organization theory, marketing - [1] (see Legend) **General Academic Qualifications BSc** The student is able to work autonomously and is self-reliant **B1** The student:

	Is able to select and use appropriate time management techniques
	Is able to select and apply appropriate principles of project management
	Can perform complex assignments without detailed briefs and within given boundaries
	The student is able to work in multidisciplinary teams
B2	The student:
	Can organize and structure meetings and has basic knowledge of decision-making techniques
	Can adopt different roles within a team
	Can reflect on the functioning of himself and others
	Is able to give and receive effective feedback
	The student is able to communicate effectively, in oral and written form, with various stakeholders
В3	The student:
	Can deliver a strong, valid, and scientific line of argumentation in a concise manner and an
	acceptable amount of time
	Can explain various concepts and present data
	Can give a presentation aimed at knowledge transfer with use of appropriate audio-visual means
	Can design, conduct, and report an interview
В4	The student is able to conduct a bibliographic search and knows how to reference correctly
	The student:
	Can systematically search for and select relevant scientific literature for projects and reports
	Is able to properly use quotation and paraphrases
	Is able to compile a relevant reference list in APA-style
В5	The student is able to recognise and reflect on ethical and societal aspects in the IEM domain
	The student:
	Can identify and address General Data Protection Regulation and confidentiality issues
	Can describe ethical implications of using research methods and technologies
В6	The student is able to reflect on and direct personal and professional behaviour and development
	The student:
	Is able to analyse own strengths and weaknesses and compose and execute a personal
	development plan
	Is able to balance study and other activities with effective time management
B7	Has enough basic knowledge and competencies to follow a broad range of MSc programmes that are
	adjacent to the IEM domain.

Level Legend

- [1] Knowledge of the basic concepts and principles
- Application in relatively simple and monodisciplinary cases Application in relatively simple interdisciplinary cases [2]
- [3]