Graduate programme - COMPUTER SCIENCE 3-semester - study mode: full-time
applicable from academic year 2024/2025

no	Course name	code	hrs. lect.	class	sem2 spring	sem3 winter	sem4 spring	ECTS	A	B	D	E
S	Database Management	ZBD	30	30	EZ			5	X			
S	Introduction to Big Data	WPBD	30	30	EZ			5			X	
S	Digital Signal and Image Processing	PSO	30	30	EZ			5				X
S	Cloud Platforms and Technologies	TPC	30	30	EZ			5		X		
2	Data Integration and Data Warehouses	IDH	30	30	EZ			5				
...	Linguistic Engineering	INL	30	30	EZ			5	(2 elective courses to choose)			
...	Data Exploration and Visualization	EWD	30	30	EZ			5				
3	Generative Artificial Intelligence	TEG	30	30	Z			5				
4	Fairness, Accountability, Transparency and Ethics (FATE) in Information Systems	SOPE	0	int	Z			3				
5	Puzzle Based Learning (online course)	PUZ	0	int	Z			2				
6	Diploma Seminar	SEM1	30	0	Z			5				
7	Foreign Language	LEK	0	30	Z			3				
8	Setting-up IT Startups	TSI	30	30		Z		4				
S	Introduction to Machine Learning	WUM	30	30		EZ		5			X	X
S	Business Process Modeling and Management	MZP	30	30		EZ		5	X	X		X
S	Big Data - Modeling, Management, Processing and Integration	BGD	30	30		EZ		5			X	
S	Mobile Wireless Systems	SMB	30	30		EZ		5		X		
S	NoSQL Databases	NBD	30	30		EZ		5	X			
11	Project Management	ZPRO	30	30		EZ		5				
...	Advanced Modeling and Analysis of Information Systems	ZMA	30	30		EZ		5	(2 elective courses to choose)			
12	Data Protection in Big Data Environments	BZBD	30	30		EZ		5				
13	Diploma Seminar	SEM2	0	30		Z		6				
14	Foreign Language	LEK	0	30		Z		3				
S	Advanced Methods in Computer Security	ZMI	30	30			EZ	5	X	X		
S	Applications of Machine Learning	ZUM	30	30			EZ	5			X	X
16	Analysis of Large Data Sets	ADD	30	30			EZ	5				
…	Distributed Systems and Service Integration	SRI	30	30			EZ	5	(2 elective courses to choose)			
17	Graphs and Their Applications	GIZ	30	30			EZ	5				
18	Diploma Seminar	SEM3	0	30			Z	15				
19	Foreign Language	LEK	0	30			Z	3				
Block courses							**ECTS required:**	**94**				

profile* courses and selective courses scheme

* STUDY PROFILES:

A = Engineering of Software, Business Processes and Databases
 area - Databases
 field - Software Engineering
 area - Project Management
 area - Business Applications Programming
B = Technologies for Mobile and Cloud Computing
D = Data Science
E = Interactive Multimedia

Other markings:

S = profile-specific course (see the assignment matrix on the right)
int = part of the course using Internet-based material
no = the numbering in this column totals to the number of courses required
　　　　　to complete the programme