

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

no	Course name	code	hrs.		sem2 spring	sem3 winter	sem4 spring	ECTS	profile* courses and selective courses scheme							
			lect.	class					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	(2 elective courses to choose)							
...	Linguistic Engineering	INL	30	30	EZ			5								
...	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	30	0	Z			3								
5	Puzzle Based Learning (online course)	PUZ	0	30int	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								
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	(2 elective courses to choose)							
...	Advanced Modeling and Analysis of Information Systems	ZMA	30	30		EZ		5								
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					(2 elective courses to choose)			
...	Distributed Systems and Service Integration	SRI	30	30			EZ	5								
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								
<b>Block courses</b>								<b>ECTS required:</b>	<b>94</b>							

**\* 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