

Master's Curriculum in Fundamental Computer Science and Information Technology



MAJOR: Database Technologies

Degree Structure

#	Activity Type	ECTS cr
1.	General studies	11
2.	Professional studies	49
4.	Practice and Scientific Research	51
5.	Final Certification	9
Total		120

Courses

#	Course Name	Period (semester)	ECTS cr
General Studies (11 ECTS cr)			
1.	English language for professional activities	1, 2	4
2.	History and methodology of science and technology	1	2
3.	Higher education pedagogics	3	2
4.	Management of high performance computer systems	3	3
Professional Studies (49 ECTS cr)			
5.	Object-oriented CASE-technologies	2	2
6.	Distributed object technologies	2	3
7.	Distributed and parallel programming	2, 3	4
8.	Mathematical foundation of information security	1	3
9.	Advanced technologies of DBMS development	1, 2	4
10.	Advanced methods of software development	3	2
11.	Programming in C#	1	2
12.	Geographical information systems	2	2
13.	Database technologies	1	2
14.	Data mining	3	3
15.	Information technology analysis	3	2
16.	Neural networks	4	3
17.	Unix/Linux administration	4	3
18.	Social network game development	4	3
19.	Engineering computer modeling	1	2
20.	Markup languages	2	3
21.	Programming on ASP.NET platform	3	2
22.	Logical programming	4	3
Practice and Scientific Research (51 ECTS cr)			
23.	Teaching practice	2	3
24.	Industrial practice	2	3
25.	Undergraduate practice	4	6
26.	Research project	1, 2, 3, 4	39
Final Certification (9 ECTS cr)			
27.	State examination	4	3
28.	Master's thesis defense	4	6