Master Computer Science as a Second Competence

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INVOLVED UNIVERSITIES	- Voronezh State University, Computer Science Faculty: http://www.cs.vsu.ru			
UNIVERSITIES	- This master program was developed in cooperation with European universities on the basis of			
	the European Union recommendations and supported by the EU in the framework of the			
	ERAMIS TEMPUS-project: http://tempus.seun.ru/information/index.php			
HEAD OF TRAINING	Dr. Eduard Algazinov (<u>algazinov@sc.vsu.ru</u>), professor.			
INAIMING	Voronezh State University, computer science faculty.			
DIPLOMA	394006, Universitetskaya pl., 1, Voronezh, Russian Federation			
DIPLOMA	Master degree, Direction 230400 "Information System and Technology" Master Program «Computer Science as a second competence».			
PURPOSE OF THE	Master rogram «Computer Science as a second competence». Master degree in "Information Systems and Technology" («Computer Science as a second			
MASTER	Master degree in Information Systems and Technology («Computer Science as a second competence»).			
MASTER	It concerns students with a bachelor's degree in Sciences (except in Computer Science) or in Social			
	and Human Sciences, Linguistics, etc.			
	The main aim is to acquire a further competence in informatics in order to help the applicants to			
	integrate the labor market with a double competence.			
The basic course consists of common core in informatics (programming, web t				
	information systems administration, computer system and networks, data mining, software			
	engineering, etc.)			
	Besides, the master program provides courses that address the application of information			
	technologies in the professional area also.			
	Double competence enables graduates to solve problems in their professional field at a higher			
	professional level using advanced information technology, or to change the profile of their			
	professional activities in the event of changes in the labor market.			
OPPORTUNITIES	Large and various opportunities according to the original discipline of diplomas :			
	• In the field of computer science: system administration, software engineering, data mining,			
	development and application of Web services and multimedia documents, networks management,			
	etc.			
	• In the field of the basic competence by putting the acquired background in computer science to			
	good use: engineering of computer tools (drafting of specifications, interface design, etc.),			
	• In the field of Natural Language Processing,			
	In the field of Computer Modeling and Simulation			
PUBLIC	• students			
	• employees			
	- students with a bachelor, specialist or master degree (except in computer science);			
	- validation of professional skills.			
RECRUITMENT	- The master applicants are accepted according to the following procedure :			
REQUIREMENTS	• A review of the application form. Professional experience may be taken into account.			
	• An interview (mathematics, computer science and foreign language) is held in order to clarify			
DECISTRATION	the applicant's skills, motivations and professional project			
REGISTRATION				
PROCEDURES	Admissions Committee (see contact bellow). - File collection: 20th of June			
STAFF	- Deadline for applications: first week of August 15 teachers. Half of them undergo training at EU-partner universities			
EVALUATION	- Continuing testing: supervised tasks and/or practice work;			
EVALUATION	- Exams (oral or written) or credits for all courses .			
	- Project, internship, and master thesis with oral presentation			
SUCCESS RATE :	- All exams and credits passed,			
SUCCESS KATE :	 All exams and credits passed, Project, internship, and master thesis orally defended 			
LEARNING	Semester-learning over two years.			
PROCEDURES	(see details overleaf)			
CONTACT	Secretary : Ms. Lotareva Nina Mickhailovna			
CONTACT	Master Information Systems and Technology (Master Program «Computer Science as a second			
	competence»)			
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Curriculum

The master is organized in 4 semesters as follows :

Sem	ester 1		
•	Programming	64 hours,	6 ECTS
•	Algorithms and Data Structures	64 hours,	5 ECTS
•	Operating Systems	32 hours,	2 ECTS
•	Computer Networks	32 hours,	2 ECTS
•	Mathematics and Fundamentals for Computer Science	32 hours,	3 ECTS
•	DataBases	32 hours,	3 ECTS
•	Computer English 1	16 hours,	2 ECTS
•	Academic Practice		6 ECTS
Sem	ester 2		
•	Software Engineering	50 hours,	5 ECTS
•	Project Management	32 hours,	3 ECTS
•	Web Development	50 hours,	5 ECTS
•	Computer Security	32 hours,	3 ECTS
•	Logics and scientific methodology	16 hours,	2 ECTS
•	Computer English 2	34 hours,	2 ECTS
•	Intelligent Systems and Technologies	32 hours,	3 ECTS
•	E-business	32 hours,	3 ECTS
•	Software Engineering Project 1		5 ECTS
Sem	ester 3		
•	Special chapters of math	32 hours,	3 ECTS
•	Human-Machine Interaction	32 hours,	3 ECTS
•	Research and modelling methodology for information systems and		
	technology	48 hours,	5 ECTS
•	Data Mining & Data Warehouse	32 hours,	4 ECTS
•	Applied Statistics	32 hours,	2 ECTS
•	Information Systems Administration	48 hours,	4 ECTS
•	Software Engineering Project 2		5 ECTS
•	Company Internship		5 ECTS
Sem	ester 4		
•	Company Internship		4 ECTS
•	Master Thesis Preparation		26 ECTS