

COURSE CATALOGUE 2016-2017

Field: COMPUTER SCIENCE

Programme: **Bachelor's Degree Programme in Computer Science (Informatics)**Length of studies: **3 years (6 semesters)**Number of ECTS Credits: **180 +30 for the B.Sc. Thesis**Languages of teaching: **Romanian (English/French tutoring available for Erasmus students)**Form of education: **Full-time**

Course Code	Course Title	Type of course/ tuition hours	Semester	ECTS
INFO101	Computer Systems Architecture	Compulsory, 56	Autumn	6
INFO102	Computational Logic	Compulsory, 56	Autumn	6
INFO103	Imperative/Procedural Programming Office Automation	Compulsory, 70	Autumn	6
INFO104	Algebra and Analytical and Differential Geometry	Compulsory, 42	Autumn	4
INFO105	Mathematical Analysis	Compulsory, 56	Autumn	6
INFO106	Foreign Language 1	Compulsory, 28	Autumn	2
INFO107	Sport1	Compulsory, 28	Autumn	1
INFO108	Architecture of Embedded Systems	Optional, 28	Autumn	2
INFO109	Data Structures and Algorithms	Compulsory, 84	Summer	6
INFO110	Mathematical Bases of Computers	Compulsory, 42	Summer	6
INFO111	Operating Systems	Compulsory, 56	Summer	6
INFO112	Graphs Algorithms	Compulsory, 56	Summer	5
INFO113	Probabilistic and Mathematical Statistics	Compulsory, 42	Summer	5
INFO114	Foreign Language 2	Compulsory, 28	Summer	2
INFO115	Sport 2	Compulsory, 14	Summer	1
INFO116	Computational Geometry	Optional, 56	Summer	4
INFO201	Databases	Compulsory, 56	Autumn	5
INFO202	Fundamental Algorithms	Compulsory, 56	Autumn	4
INFO203	Computer Networks	Compulsory, 56	Autumn	5
INFO204	Object-Oriented Programming	Compulsory, 70	Autumn	6
INFO205	Differential and Partial Derivates Equations	Compulsory, 56	Autumn	4
INFO206	Mathematical Software	Elective (1 out of 2), 48	Autumn	6
INFO207	Complex Analysis	Elective (1 out of 2), 48	Autumn	6
INFO208	Computational Algebra	Optional, 56	Autumn	4
INFO209	Numerical Calculus	Compulsory, 56	Summer	5
INFO210	Formal and Automatic Languages	Compulsory, 56	Summer	4
INFO211	Web Technologies	Compulsory, 56	Summer	5
INFO212	Database Management Systems	Compulsory, 56	Summer	5
INFO213	Advanced Programming Techniques	Compulsory, 56	Summer	5
INFO214	Optimization Techniques	Compulsory, 56	Summer	4
INFO215	Practical Activities	Compulsory, 60	Summer	2
INFO216	Embedded Systemns Programming	Optional, 56	Summer	4
INFO301	Geometric Modeling and Computer Graphics	Compulsory, 56	Autumn	6
INFO302	System Analysis and Design	Compulsory, 56	Autumn	6
INFO303	Programming of Mobile Devices	Compulsory, 56	Autumn	6
INFO304	Artificial Intelligence	Compulsory, 56	Autumn	6
INFO305	Visual Programming Environments	Elective (1 out of 2), 56	Autumn	6
INFO306	Multimedia Techniques and Technologies	Elective (1 out of 2), 56	Autumn	4
INFO307	IT Law	Optional, 56	Autumn	4
INFO308	Mathematical Modeling and Simulation	Compulsory, 48	Summer	6
INFO309	Practice for the Development of BSc. Thesis	Compulsory, 48	Summer	6

INFO310	Machine Learning and Pattern Recognition	Elective (1 out of 2), 48	Summer	6
INFO311	Evolutionary Computation	Elective (1 out of 2), 48	Summer	6
INFO312	Intelligent Computation - bio-inspired techniques	Elective (1 out of 2), 48	Summer	6
INFO313	Neural Networks and Applications	Elective (1 out of 2), 48	Summer	6
INFO314	Advanced Networking Techniques	Elective (1 out of 2), 48	Summer	6
INFO315	Non-Conventional Software Technologies	Elective (1 out of 2), 48	Summer	6
INFO316	Computer Project Management	Optional, 56	Summer	2