

**FACULTY OF
INFORMATICS**

- Bachelor's degree programme of INFORMATICS
- Master's degree programme of INFORMATICS

**Bachelor's degree programme
INFORMATICS**
1st semester (30 ECTS credits)

Course code	Course title	ECTS Credits
P130B001	Mathematics 1	6
T120B196	Introduction to Studies of Informatics	9
P175B505	Computer Graphics	6
P175B118	Object-Oriented Programming 1	9

2nd semester (30 ECTS credits)

P190B101	Physics 1	6
P130B002	Mathematics 2	6
P175B100	The First Principles of Digital Logic	6
P175B123	Object-Oriented Programming 2	6

3rd semester (30 ECTS credits)

P160B003	Theory of Probability and Statistics	6
P175B014	Data Structures	6
P175B125	Computer Architecture	6
P170B008	Discrete Structures	6
H570B104	English Language (Level C1)	6

4th semester (30 ECTS credits)

P175B304	Operating Systems	6
P170B400	Design and Analysis of Computer Algorithms	6
P175B602	Databases	6
P175B314	Software Engineering	6
PR00B121	Semester Project	6

5th semester (30 ECTS credits)

P170B115	Numerical Methods and Algorithms	6
P170B114	Fundamentals of Information Systems	6
T120B145	Computer Networks and Internet Technologies	6
T120B182	Multimedia Development Elements	6
P175B163	System Simulation	6

6th semester (30 ECTS credits)

P176B101	Introduction to Artificial Intelligence	6
P175B162	Graphics Programming	6
T120B168	Interactive Web Technology	6
T120B001	User Interface Design Principles	6
P175B524	Programming with JAVA	6

7th semester (30 ECTS credits)

T120B180	Development and Deployment of Network Based Services	6
T120B169	Smart Mobile Systems and App Development	6
P170B118	Physically Based Animation	6

Master's degree programme INFORMATICS

1st semester (30 ECTS credits)

Course code	Course title	ECTS Credits
P170M102	Models and Algorithms of Physically Based Behaviour	6
P170M106	Algorithms and Data Structures in Computational Geometry	6
T120M158	Information Technology Project Management	6
P170M105	Virtual Reality Modelling	6
P000M103	Computer Science Research Work	6

2nd semester (30 ECTS credits)

P170M103	Approximation and Visualization of 3D Objects	6
T120M157	Cloud Computing Services	6
P170M104	Digital Image and Sound Processing	6
P170M109	Computational Intelligence and Decision	6
P000M105	Computer Science Task Analysis and Specification	6

3rd semester (30 ECTS credits)

P170M108	3D Animation and Rendering Methods	6
T120M159	Multimedia Technologies for Mobile Devices	6
P170M110	Computer Game Mechanics	6
P170M011	Image Processing and Computer Vision	6
P000M104	IT Solution Implementation and Experimental Study	6