

TYPE & FIELD OF STUDIES/ **MSc in COMPUTER SCIENCE**
PROGRAMME TITLE: **Applied Computer Science**
Faculty/Department: Faculty of Physics, Mathematics & Computer Science

Erasmus subject code: 11.3

Duration: 2 academic years

ECTS credits: 120

Programme description: Nowadays the Computer Science is present everywhere in a human life. Computers are commonly used for working, getting and broadcasting of information, data processing, production management, air- sea- and land traffic control, communication, multimedia and etc. People, who are familiar with modern information techniques, who are able to force computers for use all their possibilities, who know how to exploit capabilities of complex computer networks and who are willing to write programs for a new sophisticated applications are wanted for almost all branches of human activity. Our graduates may obtain a professional knowledge in these and many other problems connected with the use of computers. They will be able to work with project management, software engineering, implementation and management of modern informatics' systems. They will be also able to manage of data bases, internet services, computer systems and networks. They will know how to solve problems in these fields, starting from their analysis, building UML models, creation of algorithms and writing suitable software. Our graduates can get a job in big or small business, industry, telecommunication, administration, services, education, multimedia and many other places.

	Hours	ECTS	The program of studies:
1 Semester			
Knowledge Engineering and Expert Systems	60	6	
Computational Geometry	60	4	
Software Project Management	60	4	
Real-Time Systems	45	5	
High Performance Computing	60	6	
Computer Methods in Science	60	5	
2 Semester			
Distributed Databases	60	6	
Network Services Programming	45	6	
Modelling of Discrete Processes	45	4	
Computer Image Processing	60	6	
Cax Systems	60	5	
Neural Networks	30	3	
3 Semester			
Fuzzy Modelling	45	5	
Embedded and Mobile Systems	60	7	
Digital and Microprocessor Technology	60	6	
Computer Security	60	5	
Engineering Ethics	15	1	
Team Project	30	6	
4 Semester			
System Administration	45	5	
Diploma Seminar	30	5	
Diploma Thesis	0	20	

Web page: <http://www.pk.edu.pl/fmi>

Eligibility/Admission: Students who have completed Bachelor Program in Computer Science or related field and earned Bachelor's Degree

Tuition fee: 4000 Euro per year

Contact person: Agnieszka Krok, PhD. E-mail: f-3@pk.edu.pl

Application procedures & deadlines:

Scans of the following documents are to be submitted by persons applying for admission by **10 July** : - Application Form (available to be downloaded from www.bwm.pk.edu.pl), - bachelor's diploma, - Official transcript of records, - passport (page with the holder's photo). Note: If the diploma and/or transcript of records are issued in languages other than English, please send a scan of their official translation as well. Please, send all documents via e-mail to PhD Jerzy Jaworowski at jrj@pk.edu.pl

The Cracow University of Technology
Faculty of Physics, Mathematics and Computer Science

FOR BACHELORS
Duration: 4 semesters

MEng Programme in Computer Science
Specialization: Applied Computer Science

		Hours/ week: lecture.tut..labor..project, exam, ECTS points																		
1	Neural Networks	30				1010			3											
2	Fuzzy Modelling	45										2010	E	6						
3	Knowledge Eng. and Expert Systems	60	2110	E	6															
4	Computational Geometry	60	2200		4															
5	Software Project Management	60	2002		4															
6	Distributed Databases	60				2002			E	6										
7	Network Services Programming	45				1020			E	6										
8	Real - Time Systems	45	2010		5															
9	Modelling of Discrete Processes	45				2010				4										
10	Cax Systems	60				2020				5										
11	Computer Image Processing	60				2020			E	6										
12	Computer Methods in Science	60	2110	E	5															
13	High Performance Computing	60	2011	E	6															
14	Embedded and Mobile Systems	60									2020	E	7							
15	Digital and Microprocessor Technology	60									2020	E	6							
16	System Administration	45															1020	E	5	
17	Computer Security	60									2020	E	5							
18	Team Project	30									0020		6							
19	Diploma Seminar	30															0200		5	
20	Diploma Thesis	0															0000		20	
Hours		975																		

		Hours in semesters			
	godzin	1	2	3	4
General comp. sci. subjects	975	23	20	17	5
Hours	975	23	20	17	5
Exams	11	3	3	4	1
ECTS points	120	30	30	30	30
Practices (weeks)	0				
Lectures	31				
Laboratories/tutorials	34				