

The Faculty of Mathematics and Information Science, Warsaw University of Technology
Post-graduate Program (M.Sc) in Computer Science (2008/2009 I year)

Semester 1/2 - WINTER

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
Obligatory								
1.	Calculus - Advances	dr J. Spaliński	4	2	2	0	0	E
2.	Advanced Algorithms	prof. dr hab. Z. Lonc	4	2	0	0	1	E
3.	Nonlinear Systems and Graphic Applications	prof. dr hab. S. Janeczko	4	2	0	1	0	
4.	Data Compression	dr hab. I. Herbut	3	2	0	1	0	
5.	Humanities Seminar	prof. dr hab. S. Janeczko	2	0	2	0	0	
Total:			17	8	4	2	1	2
Hours - total:					15			

Artificial Intelligence

1.	Software Testing	dr L. Stapp	4	1	1	1	0	E
2.	Image and Speech Recognition	prof. dr hab. W. Kasprzak	5	2	1	1	0	
3.	Programming in Logic and Symbolic Programming	dr F. Okulicka-Dłużewska	4	1	0	2	0	
Total:			13	4	2	4	0	1
Hours - total:					10			

Computing in Business and Economics

1.	Risk Theory and Insurance App.		5	2	1	0	1	E
2.	Data Management and Analysis with the SAS System	dr W. Matysiak	4	2	0	2	0	
3.	Intelligent Data Analysis	prof. dr hab. J. Koronacki	4	2	0	1	0	
Total:			13	6	1	3	1	1
Hours - total:					11			

Computing in Science and Engineering

1.	Approximation and Interpolation	prof. dr hab. S. Janeczko	5	2	1	0	0	E
2.	Advanced Numerical Methods	dr K. Twardowska	4	2	0	0	1	
3.	Method of Finite Element	dr A. Grabarski, dr F. Okulicka-Dłużewska	4	2	0	0	1	
Total:			13	6	1	0	2	1
Hours - total:					9			

Semester 1/2 - SUMMER

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
Obligatory								
1.	Elements of Modern Physics	prof. dr hab. L. Adamowicz	4	2	1	0	0	
2.	High Performance Computing	dr F. Okulicka-Dłużewska	4	2	0	2	0	
3.	Institutions of the European Union / Institution of Democracy	dr I. Jackiewicz	2	0	2	0	0	
4.	Diploma Seminar * (SEM.2)	prof. dr hab. B. Macukow	2	0	2	0	0	
Total:			12	4	5	2	0	0
Hours - total:					11			

Artificial Intelligence

1.	Electives x 2		8	2	0	4	0	
2.	Knowledge Representation and Reasoning	dr A. Radzikowska	5	2	0	2	0	E
3.	Neural Networks	prof. dr hab. B. Macukow, prof. nzw. dr hab. J. Mańdziuk	5	2	0	2	0	E
Total:			18	6	0	8	0	2
Hours - total:					14			

Computing in Business and Economics

1.	Electives x 2		8	2	0	4	0	
2.	Techniques of Survey Sampling	prof. dr hab. J. Wesolowski	5	2	1	0	1	E
3.	Mathematics of Financial Derivatives	dr M. Kociński	5	2	1	0	1	E
Total:			18	6	2	4	2	2
Hours - total:					14			

Computing in Science and Engineering

1.	Electives x 2		8	2	0	4	0	
2.	Math. Modeling in Physics & Techn.	prof. nzw. dr hab. T Rzeżuchowski	5	2	1	0	1	E
3.	Advanced Simulation Methods in Engineering	prof. dr hab. J. Rokicki	5	2	0	1	1	E
Total:			18	6	1	5	2	2
Hours - total:					14			

Semester 3

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
Obligatory								
1.	Electives x 2		8	2	0	4	0	
2.	Diploma Seminar	prof. dr hab. B. Macukow	2	0	2	0	0	
3.	MSc Thesis		20	0	0	0	0	
Total:			30	2	2	4	0	
Hours - total:						8		

Electives Summer Semester

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Differential Equations	prof. nzw. dr hab. A. Fryszakowski	4	2	1	1	0	
2.	Partial Differential Equations	prof. nzw. dr hab. A. Fryszakowski	4	2	1	0	1	
3.	Mathematical Programming	dr Ewa Pawelec	4	2	1	0	0	
4.	Computer Graphics 3D	dr J. Porter-Sobieraj	4	2	0	2	0	
5.	Molecular Computation Systems	dr inż. P. Wąsiewicz	4	2	0	0	1	
6.	Agent-based Computing	dr M. Paprzycki	4	2	0	0	1	
Total:			24	12	3	3	3	0
Hours - total:						21		

Electives Winter semester

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Image Reconstruction Algorithms	prof. nzw. dr hab. Z. Pasternak-Winiarski	4	2	0	0	2	
2.	Distributed Operating Systems	dr hab. E. Niewiadomska-Szynkiewicz	4	2	0	1	0	
3.	Oracle Database Programming	mgr R. Mączewski	4	2	0	0	2	
4.	Component Programming with J2EE	dr M. Grzenda	4	1	0	2	0	
5.	Numerical Computing Seminar	tdb	4	0	1	0	1	
6.	Engineering Course Subjects							
Total:			20	7	1	3	5	0
Hours - total:						16		