

The Faculty of Mathematics and Information Science, Warsaw University of Technology
Undergraduate Program (B.Sc.) in Computer Science
(2005/2006 I year AM)

Semester 1

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Calculus 1	dr L. Zabielski	6	2	2	0	0	
2.	Linear Algebra with Geometry	dr T. Traczyk	6	2	2	0	0	E
3.	Introduction to Modern Mathematics	dr T. Traczyk	6	2	2	0	0	E
4.	Programming 1 (fundamentals, C)	dr R. Podraza	5	2	2	1	0	E
5.	Physics 1	dr J. L. Nowiński	4	2	1	1	0	
6.	Electronic Principles	mgr M. Pilarski	3	1	1	0	0	
7.	Physical Education and Sports		0	0	2	0	0	
Total:			30	11	12	2	0	3
Hours - total:					25			
Hours - (without Sports, HES, Languages):					23			

Semester 2

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Calculus 2	dr L. Zabielski	6	2	2	0	0	E
2.	Discrete Mathematics 1	prof. dr hab. Z. Lonc dr K. Junosza-Szaniawski	5	2	2	0	0	
3.	Programming 2 (object oriented, C++)	dr R. Podraza	6	2	0	2	0	
4.	Physics 2	dr J. L. Nowiński	5	2	1	0	0	E
5.	Introduction to Digital Systems	prof. nzw. dr hab. T. Adamski	4	2	1	1	0	
6.	Contemporary Philosophy	dr M. Maciejczak	2	0	2	0	0	
7.	Language		2	0	2	0	0	
8.	Physical Education and Sports		0	0	2	0	0	
Total:			30	10	12	3	0	2
Hours - total:					25			
Hours - (without Sports, HES, Languages):					19			

Semester 3

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Discrete Mathematics 2	prof. dr hab. Z. Lonc dr K. Junosza-Szaniawski	5	2	1	0	0	E
2.	Differential Equations	dr T. Świrszcz	5	2	2	0	0	E
3.	Algorithms and Data Structures	dr K. Bryś	5	2	2	0	0	E
4.	Programming 3 (advanced, Java)	mgr K. Kaczmarek	5	2	0	2	0	
5.	Internet Programming	dr M. Grzenda	3	1	0	2	0	
6.	Humanities - elective		2	0	2	0	0	
7.	Language		4	0	4	0	0	
8.	Physical Education and Sports		0	0	2	0	0	
Total:			29	9	13	4	0	3
Hours - total:					26			
Hours - (without Sports, HES, Languages):					18			

Electives - Winter Semester (3)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Personnel Management	mgr I. Stawowa	2	0	2	0	0	
2.	Effective Communication	mgr I. Stawowa	2	0	2	0	0	
Total:			4	0	4	0	0	0
Hours - total:					4			

Semester 4

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Probability	prof. nzw. dr hab. P. Szablowski	5	2	2	0	0	E
2.	Numerical Methods	dr hab. A. Smoktunowicz	5	2	1	0	1	E
3.	Operating Systems	dr hab. L. Opalski	4	2	0	1	0	
4.	Programming 4 (in graphical environment)	mgr K. Mossakowski	5	2	0	2	0	
5.	Mathematical Foundation of Engineering	prof. dr hab. A. Romanowska	4	2	2	0	0	
6.	Data Bases	dr M. Grzenda	4	1	0	2	0	
7.	Language		4	0	4	0	0	
8.	Physical Education and Sports		0	0	2	0	0	
Total:			31	11	11	5	1	2
Hours - total:					28			

Hours - (without Sports, HES, Languages):

22

Semester 5 (2007/2008)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
	Electives x 3		12	3		6		E
1.	Automata Theory and Languages	dr W. Homenda	5	2	2	0	0	E
2.	Computer Statistics	dr hab. P. Grzegorzewski	4	2	0	2	0	E
3.	Software Engineering	mgr K. Kaczmarek	4	2	1	0	0	
4.	Computer Networks	mgr J. Sobczyk	3	2	0	1	0	
5.	Language		4	0	4	0	0	
6.	Physical Education and Sports		0	0	2	0	0	
	Total:		32	11	9	9	0	3
	Hours - total:							29
	Hours - (without Sports, HES, Languages):							23

Semester 6

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
	Electives x 2		8	2		4		E
1.	Computer Graphics	dr P. Kotowski	4	2	0	2	0	E
2.	Artificial Intelligence Fundamentals	dr hab. J. Arabas	4	2	0	0	1	
3.	Software engineering	mgr K. Kaczmarek	4	0	0	3	0	
4.	UNIX Programming	mgr M. Borkowski	4	1	0	2	0	
5.	Project (individual)	dr W. Homenda	4	0	0	0	3	
6.	Social Issues in Computing	dr M. Paprzycki	2	0	2	0	0	
7.	Physical Education and Sports		0	0	2	0	0	
	Total:		30	7	4	11	4	2
	Hours - total:							26
	Hours - (without Sports, HES, Languages):							22

Semester 7

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
	Elective		4	1	0	2	0	
1.	Diploma Seminar	dr F. Okulicka-Dłużewska	3	0	2	0	0	
2.	Project (group)	dr W. Homenda	4	0	0	0	3	
3.	Algorithms and Computability	dr W. Homenda	4	2	1	1	0	
4.	Bachelor Thesis		15	0	12	0	0	
	Total:		30	3	15	3	3	0
	Hours - total:							24
	Hours - (without Bachelor Thesis):							12

Electives - Winter Semester (5)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Parallel and Distributed Programming	dr L. Stapp	4	2	1	0	0	E
2.	.NET Programming	mgr K. Mossakowski	4	2	0	2	0	
3.	Introduction to TCP/IP networks	dr M. Kozłowski	4	1	0	2	0	
4.	Assemblers	prof. nzw. dr hab. T. Adamski	4	2	0	1	0	
5.	Risk Theory	dr Z. Dudek	4	2	1	0	0	E
	Total:		20	9	2	5	0	2
	Hours - total:							16

Electives - Summer Semester (6)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Elements of Sampling Theory	prof. nzw. dr hab. P. Szablowski	4	2	1	0	0	E
2.	Oracle Database Administration	mgr R. Mączewski	4	2	0	0	2	E
3.	Network Operating Systems	dr J. Oleniacz	4	1	0	2	0	
	Total:		12	5	1	2	2	2
	Hours - total:							10

Electives - Winter Semester (7)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	P	Exam
1.	Data Mining	dr K. Bryś	4	2	0	1	0	
2.	Advanced Artificial Intelligence	dr hab. J. Arabas	4	2	0	0	1	
3.	Oracle Database Programming	mgr R. Mączewski	4	2	0	0	2	
	Electives sem.5							
	Total:		12	6	0	1	3	0
	Hours - total:							10