The Faculty of Mathematics and Information Science, Warsaw University of Technology Undergraduate Program (B.Sc.) in Computer Science (2008/2009 I year AP)

Semeste	er 1
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No	Course	Responsible / Lecturer	ECTS	Lc	Е	L	Р	Exam
1.	Calculus 1		6	2	2	0	0	
2.	Linear Algebra with Geometry		6	2	2	0	0	Е
3.	Introduction to Modern Mathematics		6	2	2	0	0	Е
4.	Programming 1 (fundamentals, C)		5	2	2	1	0	Е
5.	Physics 1		4	2	1	1	0	
6.	Electronic Principles		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	Е	L	Р	Exam
1.	Calculus 2		6	2	2	0	0	Е
2.	Discrete Mathematics 1		5	2	2	0	0	
3.	Programming 2 (object oriented, C++)		5	2	0	2	0	
4.	Physics 2		4	2	1	0	0	Е
5.	Introduction to Digital Systems		4	2	1	1	0	
6.	Techniques of Auto-presentation		2	0	2	0	0	
7.	Language		4	0	4	0	0	
8.	Physical Education and Sports		0	0	2	0	0	
	Total	:	30	10	14	3	0	2

Hours - total: 27 Hours - (without Sports, HES, Languages): 19

Semester 3

No	Course	Responsible / Lecturer	ECTS	Lc	Ε	L	Ρ	Exam
1.	Discrete Mathematics 2		5	2	1	0	0	E
2.	Differential Equations		5	2	2	0	0	Е
3.	Algorithms & Data Structures		6	2	2	2	0	Е
4.	Programming 3 (advanced, Java)		5	2	0	2	0	
5.	Internet Programming		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	
	Tota	al:	30	9	13	6	0	3

Hours - total: 28 Hours - (without Sports, HES, Languages): 20

Electives - Winter Semester (3)

No	Course	Responsible / Lecturer	ECTS	Lc	Е	L	Р	Exam
1.	Personnel Management		2	0	2	0	0	
2.	Effective Communication		2	0	2	0	0	
		Total:	4	0	4	0	0	0
	Hours	- total:			4			

Semester 4

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No	Course	Responsible / Lecturer	ECTS	Lc	Е	Ĺ	Р	Exam	
1.	Probability		4	2	2	0	0	Е	
2.	Numerical Methods		4	2	1	0	1	Е	
3.	Mathematical Foundation of Engineering		4	2	2	0	0		
4.	Programming 4 (in graphical enviroment)		4	2	0	2	0		
5.	Operating Systems		3	2	0	1	0		
6.	Data Transmission		3	2	0	1	0		
7.	Data Bases		4	1	0	2	0		
8.	Language		4	0	4	0	0		
9.	Physical Education and Sports		0	0	2	0	0		
	Total	·	30	12	11	6	1	2	

Hours - total: 31

Hours - (without Sports, HES, Languages): 25 Semester 5

No	Course	Responsible / Lecturer	ECTS	Lc	Е	L	Р	Exam
	Electives x 3		12	3		6		Е
1.	Automata Theory and Languages		5	2	2	0	0	Е
2.	Computer Statistics		4	2	0	2	0	Е
3.	Software Engineering		4	2	1	0	0	
4.	Computer Networks		3	2	0	1	0	
5.	Language		2	0	2	0	0	
6.	Physical Education and Sports		0	0	2	0	0	
	Total:		30	11	7	9	0	3
	Hours - total: 27							
	Hours - (without Sports, HES, Languages):				23	1		

No	Course	Responsible / Lecturer	ECTS	Lc	Ε	L	Р	Exam
	Electives x 2		8	2		4		Е
1.	Computer Graphics		4	2	0	2	0	Е
2.	Artificial Intelligence Fundamentals		4	2	0	0	1	
3.	Software engineering		4	0	0	3	0	
4.	UNIX Programming		4	1	0	2	0	
5.	Project (individual)		4	0	0	0	3	
6.	Social Issues in Computing		2	0	2	0	0	
7.	Physical Education and Sports		0	0	2	0	0	
	Total	l:	30	7	4	11	4	2
	Hours - total	l:			26	6		

Hours - (without Sports, HES, Languages):

22

Semester 7

No	Course	Responsible / Lecturer	ECTS	Lc	Е	L	Ρ	Exam
	Elective		4	1	0	2	0	
1.	Diploma Seminar		3	0	2	0	0	
2.	Project (group)		4	1	0	0	1	
3.	Algorithms and Computability		4	2	1	1	0	
4.	Bachelor Thesis		15	0	0	0	0	
	Total:		30	4	3	3	1	0
	Hours - total:		11					

Additionally, in sem. 7 there are 180 hours for Bachelor Thesis preparation

Electives - Winter Semester (5)

No	Course	Responsible / Lecturer	ECTS	Lc	E	L	Р	Exam
1.	Parallel and Distributed Programming		4	2	1	0	0	Е
2.	.NET Programming		4	2	0	2	0	
3.	Introduction to TCP/IP networks		4	2	0	2	0	
4.	Assemblers		4	2	0	1	0	
5.	Stochastic simulation		4	2	1	1	0	Е
	Total:		20	10	2	6	0	2
	Hours - total:		18					

Electives - Summer Semester (6)

No	Course	Responsible / Lecturer	ECTS	Lc	Е	L	Р	Exam
1.	Symbolic and Numeric Calculations		4	0	0	2	0	
2.	Oracle Database Administration		4	2	0	2	0	Е
3.	Network Operating Systems		4	1	0	2	0	
	Tota	l:	12	3	0	6	0	1
	Hours - tota	l:	9					

Electives - Winter Semester (7)

No	Course	R	esponsible / Lecturer	ECTS	Lc	Е	L	Р	Exam
1.	Data Mining			4	2	0	1	0	
2.	Advanced Artificial Intelligence			4	2	0	0	1	
3.	Oracle Database Programming			4	2	0	0	2	
4.	Distributed Operating Systems			4	2	0	1	0	
	All electives from sem.5								
		Total:		16	8	0	2	3	0
			13						