

The Faculty of Mathematics and Information Science, Warsaw University of Technology
Graduate Programme (M.Sc.Eng.) in Computer Science
 (4-semester programme, specialization Business Intelligence Systems Development,
 valid from academic year 2016/2017)

COMPUTER SCIENCE - winter semester (4SEM - BISD sem.1)

Obligatory courses

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Advanced topics in mathematics (elective block)	4			3		
2	Advanced algorithms	4	2	0	0	1	E
3	Programming 3 - advanced	4	2	0	2	0	
4	Electronic principles	4	2	1	0	0	
5	Data transmission	3	2	0	1	0	
6	UNIX fundamentals	2	0	0	2	0	
7	Group project (lecture)	1	1	0	0	0	
Total:		22	10	3	5	1	1
Hours (total):					19		

Specialization: Business intelligence systems development

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Data mining - advances	4	2	0	1	0	
2	Elective 1	4			3		
Total:		8	3	0	3	0	0
Hours (total):					6		

COMPUTER SCIENCE - summer semester (4SEM - BISD sem.2)

Obligatory courses

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Elements of modern physics	4	2	1	0	0	
2	High performance computing	3	2	0	2	0	
3	Object oriented design	4	1	0	2	0	
4	Databases	4	2	0	2	0	E
5	Humanities seminar	3	0	2	0	0	
Total:		18	7	3	6	0	1
Hours (total):					16		
Hours (without Sports, HES, Languages):					14		

Specialization: Business intelligence systems development

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Advances in computer statistics	4	2	0	2	0	E
2	Introduction to SAS system	4	2	0	2	0	E
3	Enterprise data management	4	1	0	2	0	
Total:		12	5	0	6	0	2
Hours (total):					11		

COMPUTER SCIENCE - winter semester (4SEM - BISD sem.3)

Obligatory courses

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Software testing	4	1	1	1	0	E
2	Software engineering 1	4	2	1	0	0	
3	Computer networks (elective block)	4			3		
4	Multilayer application development (elective block 1)	4			3		
5	Physical education and sports	0	0	2	0	0	
Total:		16	5	4	5	0	1
Hours (total):					14		
Hours (without Sports, HES, Languages):					12		

Specialization: Business intelligence systems development

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	Business analytics programming	4	2	0	0	2	
2	Computational intelligence in business applications	3	1	0	0	2	
3	Business intelligence and web applications	3	1	0	2	0	
4	Diploma seminar 1	2	0	2	0	0	
5	Humanities (elective)	2			2		
Total:		14	6	2	2	4	0
Hours (total):					14		
Hours (without Sports, HES, Languages):					12		

COMPUTER SCIENCE - summer semester (4SEM - BISD sem.4)

Obligatory courses

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	<i>Master thesis preparation</i>	16	0	0	0	0	
	Total:	16	0	0	0	0	0
	Hours (total):		0				

Specialization: Business intelligence systems development

No.	Course	ECTS	Lc	Ex	Lab	P	Exam
1	<i>Diploma seminar 2</i>	2	0	2	0	0	
2	<i>Elective 2</i>	4	3				
3	<i>Elective 3</i>	4	3				
4	<i>Elective 4</i>	4	3				
	Total:	14	3	2	6	0	0
	Hours (total):		11				