

**The Faculty of Mathematics and Information Science, Warsaw University of
Technology, Graduate Program (M.Sc) in Computer Science
(valid from 2010-10-01)**

Semester 1/2 - WINTER

No	Course	ECTS	Lc	E	L	P	Exam
Obligatory							
1.	Calculus - Advances	4	2	2	0	0	E
2.	Advanced Algorithms	4	2	0	0	1	E
3.	Advanced Topics in Mathematics (elective)	4	2	0	1	0	MAT
4.	Data Compression	3	2	0	1	0	
5.	Humanities Seminar	2	0	2	0	0	
Total:		17					2
Hours - total:				15			
Artificial Intelligence							
1.	Software Testing	4	1	1	1	0	E
2.	Image and Speech Recognition	5	2	1	1	0	
3.	Programming in Logic and Symbolic Programming	4	1	0	2	0	
Total:		13					1
Hours - total:				10			
Computing in Business and Economics							
1.	Techniques of Survey Sampling	5	2	1	0	1	E
2.	Data Management and Analysis with the SAS System	4	2	0	2	0	
3.	Intelligent Data Analysis	4	2	0	1	0	
Total:		13					1
Hours - total:				11			

Semester 1/2 - SUMMER

No	Course	ECTS	Lc	E	L	P	Exam
Obligatory							
1.	Elements of Modern Physics	4	2	1	0	0	
2.	High Performance Computing	4	2	0	2	0	
3.	Institutions of the European Union / Institution of Democracy	2	0	2	0	0	
4.	Diploma Seminar * (SEM.2)	2	0	2	0	0	
Total:		12					0
Hours - total:				11			
Artificial Intelligence							
1.	Electives x 2	8		6			
2.	Knowledge Representation and Reasoning	5	2	0	2	0	E
3.	Neural Networks	5	2	0	2	0	E
Total:		18					2
Hours - total:				14			
Computing in Business and Economics							
1.	Electives x 2	8		6			
2.	Risk Theory and Insurance App.	5	2	1	0	1	E
3.	Mathematics of Financial Derivatives	5	2	1	0	1	E
Total:		18					2
Hours - total:				14			

Semester 3

No	Course	ECTS	Lc	E	L	P	Exam
Obligatory							
1.	Electives x 3	12		9			
3	Diploma Seminar	2	0	2	0	0	
4	MSc Thesis Preparation	16	0	0	0	0	
		Total:	30				
		Hours - total:		11			

Additionally, there are 180 hours in sem. 3 for Master Thesis preparation