

Computer Science - full time 2nd degree studies

Speciality: Software Engineering

Education programme compliant with: PRK (level7) and body of knowledge defined in standards:

ACM / IEEE Computer Science Curricula 2013 (CS 2013) and ACM / IEEE Computer Engineering Curricula 2016 and other international standards

Education area: Technical Sciences; Domain: Technical Sciences

Discipline: Computer Science - general academic profile

Title conferred: magister inżynier

Admission:

Prerequisites regarding candidates attributes: candidates for the said study programme will have engineering competencies (i.e. the professional title of Engineer) as well as qualifications, i.e knowledge, skills and competencies as defined in the Resolution of the Senate concerning the recognition of education outcomes for a given field of study at Poznan University of Technology No. 42 of 24 April 2017, with a particular focus on education outcomes for 1st degree study quoted beside, verified during admission procedure.

PRK (Learning Objectives)

Knowledge	Skills	Attitudes
K1st_W1 - 8	K1st_U2 - 14	

Semester 1:

PRK (Learning Objectives)

No.	Module	Exam	Lec	Tut	Lab	Proj	Sem	ECTS	Elective	Main	Pract.	Research.	Knowledge	Skills	Attitudes
1	Data Mining and Analysis	E	30		30			5				Bad.	K2st_W2, K2st_W3, K2st_W4, K2st_W6	K2st_U1, K2st_U3, K2st_U4, K2st_U5, K2st_U6, K2st_U8, K2st_U9, K2st_U10	K2st_K1, K2st_K2
2	Project Management		20	10	30			4			Prakt.		K2st_U2, K2st_U5, K2st_U7, K2st_U15	K2st_U2, K2st_U5, K2st_U7, K2st_U11, K2st_U14, K2st_U15	K2st_K2
3	Software Development Studio 1					60		5			Prakt.		K2st_W2, K2st_W3, K2st_W5	K2st_U1, K2st_U2, K2st_U5, K2st_U6, K2st_U7, K2st_U8, K2st_U11, K2st_U15	K2st_K1, K2st_K2
4	Technologies of Software Development	E	30		30	15		6			Prakt.	Bad.	K2st_W3, K2st_W4, K2st_W5	K2st_U1, K2st_U5, K2st_U6, K2st_U10, K2st_U11, K2st_U15	K2st_K1, K2st_K2
5	Database Performance	E	30		30			5			Prakt.	Bad.	K2st_W2, K2st_W3, K2st_W4, K2st_W5, K2st_W6	K2st_U3, K2st_U4, K2st_U5, K2st_U10, K2st_U15	K2st_K1, K2st_K2
6	Communication in English / Język polski			30				2			Podst.			K2st_U1, K2st_U12, K2st_U13, K2st_U14	K2st_K3
7	Basics of OHS (Occupational Health and Safety)		4					0			Podst.			K2st_U5	
8	New Trends in Multimedia Technologies				15		30	3			Prakt.	Bad.	K2st_W1, K2st_W3, K2st_W4, K2st_W5	K2st_U1, K2st_U3, K2st_U4, K2st_U5, K2st_U6, K2st_U8, K2st_U9, K2st_U10	K2st_K1, K2st_K2
			114	40	135	75	30	30							
		Overall hrs.:	394												

Semester 2:

PRK (Learning Objectives)

No.	Module	Exam	Lec	Tut	Lab	Proj	Sem	ECTS	Elective	Main	Pract.	Research.	Knowledge	Skills	Attitudes
1	Software Architecture and Verification	E	30		30			5			Prakt.	Bad.	K2st_W2, K2st_W3, K2st_W5	K2st_U1, K2st_U5, K2st_U6, K2st_U10, K2st_U11, K2st_U15	K2st_K1, K2st_K2
2	Software Development Studio 2					60		5			Prakt.		K2st_W2, K2st_W3, K2st_W5	K2st_U1, K2st_U2, K2st_U5, K2st_U6, K2st_U7, K2st_U8, K2st_U11, K2st_U15	K2st_K1, K2st_K2
3	Software Design and Modelling	E	30		30			5			Prakt.		K2st_W2, K2st_W3, K2st_W5, K2st_W6	K2st_U5, K2st_U6, K2st_U10, K2st_U11, K2st_U16	K2st_K1, K2st_K2
4	Pre-diploma Seminar						30	2				Bad.	K2st_W4, K2st_W6, K2st_W7	K2st_U1, K2st_U2, K2st_U12, K2st_U13, K2st_U15, K2st_U16	K2st_K1, K2st_K2, K2st_K3, K2st_K4
5	Quality Management and Experimental Software Engineering					30	30	4			Prakt.	Bad.	K2st_W1, K2st_W2, K2st_W3, K2st_W8	K2st_U1, K2st_U3, K2st_U4, K2st_U5, K2st_U6, K2st_U9, K2st_U10, K2st_U16	K2st_K2, K2st_K3, K2st_K4
6	Elective Course 1		30		15	15		5	obi		Prakt.	Bad.	K2st_W2, K2st_W3, K2st_W4, K2st_W5	K2st_U2, K2st_U5, K2st_U6, K2st_U9, K2st_U11	K2st_K1, K2st_K2
7	Research Project						30	2				Bad.	K2st_W2, K2st_W3, K2st_W4, K2st_W6, K2st_W7	K2st_U1, K2st_U3, K2st_U4, K2st_U6, K2st_U10, K2st_U13, K2st_U15, K2st_U16	K2st_K1, K2st_K2, K2st_K3, K2st_K4
8	Scientific & Technical Writing			30				2			Podst.	Bad.		K2st_U1, K2st_U12, K2st_U13, K2st_U14	K2st_K3
			90	30	75	105	90	30							
		Overall hrs.:	390												
			Caly rok: 60												

Semester 3:

No.	Module	Exam	Lec	Tut	Lab	Proj	Sem	ECTS	Elective	Main	Pract.	Research.	PRK (Learning Objectives)			
													Knowledge	Skills	Attitudes	
1	Diploma Seminar						30	2				Bad.	K2st_W4, K2st_W6, K2st_W7	K2st_U1, K2st_U2, K2st_U12, K2st_U13, K2st_U15, K2st_U16	K2st_K1, K2st_K2, K2st_K3, K2st_K4	
2	IT in Administration		20		30			4			Prakt.		K2st_W1, K2st_W2, K2st_W5	K2st_U5, K2st_U6, K2st_U8, K2st_U9, K2st_U11	K2st_K1, K2st_K2	
3	Elective Course 2		30		30			4	obi		Prakt.		K2st_W1, K2st_W3, K2st_W5	K2st_U5, K2st_U2, K2st_U6, K2st_U7, K2st_U9, K2st_U11	K2st_K1, K2st_K2	
4	Masters Thesis Preparation							15	obi			Bad.	K2st_W1, K2st_W2, K2st_W3, K2st_W4, K2st_W5, K2st_W6	K2st_U1, K2st_U2, K2st_U3, K2st_U4, K2st_U5, K2st_U6, K2st_U8, K2st_U9, K2st_U10, K2st_U11, K2st_U13, K2st_U16	K2st_K1, K2st_K2, K2st_K3, K2st_K4	
5	Elective Course (Social Sciences)		30	15				3	obi		Prakt.		K2st_W8, K2st_W9	K2st_U1, K2st_U16	K2st_K3	
6	Elective Course (Human Sciences): Interpersonal Communication / Intercultural Communication		10	20				2	obi				K2st_W8	K2st_U2, K2st_U14, K2st_U15	K2st_K4	
			90	35	60	0	30	30								
			Overall hrs.:	215												
Summary of all semesters:			294	105	270	180	150	90								
			Overall hrs.:	999												

Summary of the Program of Studies

Overall hours - summary of all semesters:	999
Consultations, exams:	60
All contact hours with tutors:	1 059
ECTS:	90
ECTS for elective modules:	29
Required number of hours in elective modules 30% from 90	27
Total number of hours within tutorials, laboratory classes, project classes, and seminars:	705
Number of ECTS credits allocated per practical course	58
Number of ECTS credits per courses intended to let students acquire advanced knowledge and develop the skill to carry out scientific research	56
% of ECTS credits per courses intended to let students acquire advanced knowledge and develop the skill to carry out scientific research	62,222
Number of ECTS credits per courses in the range of fundamental sciences	4