

CONTACT INFORMATION

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PERSONAL INFORMATION

Name: Pyry-Samuli Lahti
Identity number: 180183-173D
Date of birth: 18.1.1983
Student number: 60429L

Admitted to Helsinki University of Technology: 5.7.2002
Admitted for doctoral studies: -

DEGREES AWARDED BY TKK

Master of Science in Technology, Degree Programme in Computer Science and Engineering, 23.2.2009
Part one of the degree, 20.12.2005

RIGHT TO STUDY

Organisation: Faculty of Information and Natural Sciences
Period of validity: 5.7.2002 - 23.2.2009
Degree regulations: Degree Regulations of 1995
Degree: Master of Science in Technology
Programme: Degree Programme in Computer Science and Engineering
Option: Option: Software Business and Engineering (1055)
Major/Research field: Software Engineering and Business (2276)
Minor: Telecommunications Software (2139)

SUMMARY OF CREDITS EARNED

Possible overlappings have not been removed. The extent of studies is measured in credits. One credit as calculated according to the previous credit system (ocr) corresponds to 1,5 credits (cr). See bottom of transcript.*

Academic year	Autumn	Spring	Number	Original credits		Total credits	
				ocr	cr	ocr	cr
2002-2003	Absent	Absent	0	0,0	0,0	0,0	0,0
2003-2004	Present	Present	11	33,0	0,0	33,0	49,5
2004-2005	Present	Present	17	44,0	0,0	44,0	66,0
2005-2006	Present	Present	16	8,0	45,0	38,0	57,0
2006-2007	Present	Present	14	7,0	51,0	41,0	61,5
2007-2008	Present	Present	2	0,0	8,0	5,3	8,0
2008-2009	Present	Present	2	20,0	0,0	20,0	30,0
Total			62	112,0	104,0	181,3	272,0

List of courses on the following pages.

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COURSES COMPLETED

Code	Course	Credits	Grade	Date	Teacher
Part one of the degree					
Ako-106.216	Basic Course in Programming Y1	5,0	ocr 4	30.8.2004	Kerttu Pollari-Malmi
Eri-0.145	Orientation Course for New Students	1,0	ocr hyv	5.11.2003	Milla Vaisto-Oinonen
Eri-0.512	Searching Scientific Information (Computer Science)	1,0	ocr hyv	23.3.2004	Virpi Palmgren
Kie-98.012	Examination of the Second Official Language	0,0	ocr tt	25.8.2004	Maarit Fredlund
Kie-98.013	Examination of the Second Official Language	1,0	ocr tt	25.8.2004	Maarit Fredlund
Kie-98.505	English through the Internet	2,0	ocr hyv	30.1.2005	Ruth Vilmi
Mat-1.128	Discrete Mathematics	3,0	ocr 5	6.5.2005	Seppo Ilkka
Mat-1.411	Basic Course in Mathematics C 1	6,0	ocr 3	11.12.2003	Harri Hakula
Mat-1.412	Basic Course in Mathematics C 2	6,0	ocr 4	26.4.2004	Kari Eloranta, Marko Huhtanen
Mat-1.413	Basic Course in Mathematics C 3	6,0	ocr 3	14.12.2004	Kari Eloranta
Mat-2.091	Applied Probability	3,0	ocr 5	16.5.2005	Simo Heliövaara
Mat-2.107	Computational Assignments in Applied Mathematics	1,0	ocr hyv	20.12.2005	Jyri Mustajoki
S-88.110	Digital and Computer Technology, basic course	2,0	ocr 1	17.12.2003	Jorma Skyttä
T-0.020	Orientation Course for New Students in CSE Degree Programme	1,0	ocr hyv	12.5.2004	Sanna Suoranta
T-106.001	Computer as a Tool	1,0	ocr 5	19.9.2003	Aura Paloheimo
T-106.231	Basics of Imperative Programming	3,0	ocr 4	31.8.2004	Stefan Rönn
T-106.250	Data Structures and Algorithms T	4,0	ocr 5	2.6.2004	Ari Korhonen
T-106.710	Supplementary Course Ohjelmoinnin perusteet	1,0	ocr 5	10.2.2005	Lauri Malmi
T-110.250	Fundamentals of Network Media	3,0	ocr 3	31.5.2005	Ursula Koivikko
T-121.100	Introduction to User-Centred Product Development	1,0	ocr 1	13.8.2004	Marko Nieminen
T-61.123	Computer Architecture	3,0	ocr 3	12.1.2005	
T-61.140	Signal Processing Systems	2,0	ocr 5	29.4.2005	Olli Simula
T-79.148	Introduction to Theoretical Computer Science	2,0	ocr 3	20.12.2004	Pekka Orponen
T-93.211	Introduction to Programming T	3,0	ocr 1	26.1.2004	Seppo Törmä
T-93.270	Object-oriented Programming T	4,0	ocr 4	28.6.2005	Esko Nuutila
Tfy-3.124	Physics I (Kem, Puu, Tik)	4,0	ocr 4	8.12.2003	Petri Salo
Tfy-3.125	Physics II (Kem, Puu, Maa, Tik)	4,0	ocr 4	10.5.2004	Petri Salo
Vie-98.220	Speech Communication	2,0	ocr hyv	10.11.2004	Liisa Kouvonen
Total credits:		75,0	ocr		
Weighted average grade:				3,63	
Grade:					Very good

Options

Option: Software Business and Engineering

T-106.430	Operating Systems	3,0	ocr 3	31.8.2006	Vesa Hirvisalo
T-121.110	Exercise in User-Centred Product Development	3,0	ocr 2	11.5.2005	Marko Nieminen
T-128.4200	Management of a Software Company P	6,0	cr 5	5.3.2007	Jyrki Kontio
T-76.1143	Database Management	5,0	cr 4	13.4.2006	Juha Puustjärvi
T-76.3601	Introduction to Software Engineering	5,0	cr 5	17.5.2006	Casper Lassenius
T-76.4602	Software development methods	6,0	cr 5	21.12.2006	Tomi Männistö
T-79.3001	Logic in computer science: foundations	4,0	cr 3	18.5.2006	Tomi Janhunen

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Code	Course	Credits	Grade	Date	Teacher
TU-22.101	Introduction to Industrial Management	3,0 ocr	3	10.9.2005	Karlos Artto
TU-22.1103	Exercise Industrial Management and Engineering	1,0 cr	5	31.1.2006	Karlos Artto
TU-22.1120	Introduction to Project Management	3,0 cr	5	8.4.2006	Karlos Artto
Total credits:		29,0 ocr			
Weighted average grade:			3,97		
Grade:		Very good			

Studies in Major

Software Engineering and Business

T-76.4115	Software Development Project I	6,0 cr	5	26.3.2008	Jari Vanhanen
T-76.5144	Managing data in the semantic web	4,0 cr	4	21.5.2007	Juha Puustjärvi
T-76.5150	Software Architectures P	5,0 cr	4	23.5.2007	Tomi Männistö
T-76.5158	Special Assignment in Software Engineering P	2,0 cr	hyv	3.4.2008	Jari Vanhanen
	Ohjelmistokehitysprojekti I lisätyö				
T-76.5612	Software Project Management P	3,0 cr	5	29.3.2007	Maria Paasivaara
T-76.5613	Software testing and quality assurance	5,0 cr	5	20.12.2006	Juha Itkonen
T-76.5615	Requirements engineering L	3,0 cr	4	10.11.2005	Sari Kujala
T-76.5631	Software processes P	4,0 cr	5	16.5.2007	Kristian Rautiainen
T-76.5632	Legal Issues in Computing P	3,0 cr	3	13.11.2006	Mikko Välimäki
Total credits:		23,3 ocr			
Weighted average grade:			4,45		
Grade:		Very good			

Studies in First Minor

Telecommunications Software

S-38.3001	Telecommunications Forum P	2,0 cr	hyv	10.12.2005	Heikki Hämmäinen
T-110.2100	Introduction to Datacommunications	5,0 cr	5	15.5.2006	Timo Kiravuo
T-110.4100	Computer Networks	4,0 cr	3	5.1.2006	Sanna Suoranta
T-110.4200	Information Security Technology	3,0 cr	5	1.1.2006	Timo Kiravuo
T-110.5100	Laboratory Works in Datacommunications	4,0 cr	hyv	18.1.2007	Seppo Äyräväinen
	Software				
T-110.5210	Cryptosystems	4,0 cr	5	28.1.2007	Sami Vaarala
T-110.5610	Personnel and Premises Related Security	3,0 cr	5	31.5.2007	Harri Koskenranta
T-111.2350	Multimedia Technology	4,0 cr	5	31.10.2006	Petri Vuorimaa
Total credits:		19,3 ocr			
Weighted average grade:			4,65		
Grade:		Excellent			

Other elective studies

S-38.1203	Networking Technology, project course	3,0 cr	hyv	19.5.2006	Vesa Kosonen
T-111.4003	Multimedia Tools	4,0 cr	5	28.2.2006	Oskari Martimo
TU-53.1140	Leadership in Organizations P	3,0 cr	5	25.11.2005	Paul Buhapist

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Code	Course	Credits	Grade	Date	Teacher
Total credits:		6,7	ocr		
Weighted average grade:			5,00		
Grade:		Excellent			

Practical training

Harj-0.100	Working Environment Training	4,0	ocr	hyv	24.10.2005	Tiina Kerola
Harj-0.101	Professional Training	4,0	ocr	hyv	19.12.2006	Päivi Koivunen
Total credits:		8,0	ocr			
Grade:		Pass				

Master's thesis

T-76.dipl	Master's Thesis Automated System Testing of Web-based Applications	20,0	ocr	5	23.2.2009	Tomi Männistö
T-76.kyps	Maturity Test	0,0	ocr	hyv	25.9.2008	Tomi Männistö, Inkeri Lehtimaja
Total credits:		20,0	ocr			
Weighted average grade:				5,00		
Grade:		Excellent				

SUMMARY OF CREDITS EARNED

Total credits:	181,3	ocr
Weighted average grade:	4,12	

The extent of studies is measured in credits. The average number of hours required in one academic year of studies, 1 600 hours, corresponds to 60 credits (cr). One credit as calculated according to the previous credit system (ocr) indicates an input of approximately 40 hours of student work. See below.*

Grading: excellent (5), very good (4), good (3), very satisfactory (2) and satisfactory (1) or pass (hyv). From 1 August 2007 onwards the grades given for the Bachelor's Thesis and Seminar have been pass with distinction (kh) and pass (hyv). The grades given for the Examination of the Second Official Language/National Language Requirement Test are good (ht) and satisfactory (tt). The grades for the study entities and the thesis in the pre-doctoral and doctoral degrees are pass with distinction (kh) and pass (hyv).

Those courses which are graded excellent (5), very good (4), good (3), very satisfactory (2) and satisfactory (1) are included in the credit-weighted average grade. The decimals in the average grades are truncated, not rounded.

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In Espoo, 19 March 2009

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*In connection with the reform of the Finnish university degrees, which took effect in autumn 2005, Helsinki University of Technology adopted the European credit system. ECTS credits (cr) have replaced the previous credits (ocr). In order to compare: one previous credit (ocr) = 1,5 credits (cr).