

29.06.2010 10:25

Lämsä Reino Erkki-Juhani
Revontulentie 3 D 47

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Student number 57903M
Date of birth 11.04.1982
Date of registration 06.07.2001

Enrolment Autumn 2009 Attending
Spring 2010 Attending

Study right granted by Aalto University School of Science and Technology
Student's organisation Faculty of Electronics, Communications and Automation
Degree regulations Degree Regulations of 1995
Degree pursued Master of Science in Technology
Degree programme Degree Programme in Automation and Systems Technology
Major/Research field Automation Technology
Minor Machine Design (Mechatronics)
Validity 06.07.2001-

Code	Name	Cr (ocr)	Grade	Date	Teacher
COURSES COMPLETED, NOT INCLUDED IN A DEGREE		166,8	2,31		
PART ONE OF THE DEGREE		71,5	2,22		
Part one of the degree		71,5	2,22		
AS-0.101	Basic Course in C/C++ -programming	4,0	1	26.09.2003	Hannu Laine
AS-74.101	Computer Simulation	2,0	4	31.12.2004	Heikki Koivo
AS-75.102	Basics of Publication Technology 1	2,0	3	15.09.2005	Pirkko Oittinen
AS-75.120	Basics of Media Technology 1	2,0	1	07.09.2004	Pirkko Oittinen
AS-84.132	Automation and Control Technology	3,0	2	16.12.2004	Aarne Halme
Eri-0.5002	Searching for Scientific Information (Automation and Systems Technology)	1,3	hyv	09.11.2006	Virpi Palmgren
KE-35.9700	Principles of Chemistry; K, TU, AS	3,3	3	28.08.2009	Tuula Leskelä
Kie-98.012	Examination of the Second Official Language	-	tt	18.01.2005	Eija Ketelä
Kie-98.013	Examination of the Second Official Language	1,0	tt	19.01.2005	Eija Ketelä
Kie-98.1103	Reading Interactively	2,0	hyv	23.02.2006	Jan-Mikael Rybicki
Kon-41.010	Engineering Design B	3,0	3	17.12.2003	Markku Kuuva
Mat-1.411	Basic Course in Mathematics C 1	6,0	3	12.12.2002	Harri Hakula
Mat-1.412	Basic Course in Mathematics C 2	6,0	2	05.05.2003	Harri Hakula, Marko Huhtanen
Mat-1.413	Basic Course in Mathematics C 3	6,0	2	11.12.2003	Marko Huhtanen
Mat-2.091	Applied Probability	3,0	5	12.05.2004	Jyrki Möttönen
Mat-2.104	Introduction to Statistical Inference	2,5	2	18.05.2006	Kai Virtanen
Mat-2.105	Introduction to Optimization	2,0	2	14.05.2005	Harri Ehtamo
S-104.101	Physics I (Est)	4,5	1	15.12.2003	Markku Sopanen
S-104.1020	Physics II (AS, Bio, Est, TIt)	4,0	1	22.12.2006	Harri Lipsanen
S-55.103	Basic Electrical and Electronics Engineering	2,5	1	02.09.2004	Kimmo Silvonen
S-88.110	Digital and Computer Technology, basic course	2,0	1	18.12.2002	Jorma Skyttä
T-106.001	Computer as a Tool	1,0	3	25.10.2002	Sami Ensio
T-106.213	Basic Course in Programming L1	5,0	3	14.01.2003	Juha Sorva
Tfy-3.154	Physics, laboratory course	2,0	hyv	29.04.2003	Jouko Lahtinen

29.06.2010 10:25

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Code	Name	Cr (ocr)	Grade	Date	Teacher
Vie-98.1220	Speech Communication	1,3	hyv	15.11.2005	Liisa Kouvonen
OPTIONS		22,0	1,62		
Options, being grouped		22,0	1,62		
AS-116.2120	Information Technology Applications in Automation	3,3	3	11.01.2007	Pekka Aarnio
AS-74.111	Analogue Control	2,0	3	13.12.2004	Jean-Peter Ylen
AS-74.2112	Digital Control	2,0	1	15.05.2007	Kai Zenger
AS-75.124	Basics of Imaging Technology I	3,0	1	10.01.2005	Pirkko Oittinen
AS-84.1168	Automation Systems	2,0	1	02.06.2008	Panu Harmo
T-106.233	Basic Course in Programming 2	4,0	1	03.05.2004	Petri Ihanola
T-110.250	Fundamentals of Network Media	3,0	2	13.06.2005	Ursula Koivikko
TU-22.1101	Introduction to Industrial Management and Engineering	2,7	1	17.04.2010	Karlos Artto, Tomi Laamanen
STUDIES IN MAJOR		25,7	2,45		
Automation Technology, being grouped		25,7	2,45		
AS-0.2230	Laboratory Exercises in Control and Automation Engineering	4,0	hyv	13.12.2006	Kai Zenger
AS-116.100	Manufacturing Automation	3,0	1	13.12.2005	Kari Koskinen
AS-84.1137	Robotics	2,0	1	28.06.2010	Pekka Forsman
AS-84.2161	Signal Processing Methods in Automation	3,3	2	13.05.2008	Aarne Halme, Arto Visala
AS-84.3145	Field and Service Robotics	2,7	3	21.12.2005	Aarne Halme, Jussi Suomela
AS-84.3147	Man-machine Interfaces in Automation P	2,0	4	07.06.2007	Jussi Suomela
AS-84.3268	Project in Automation Systems	2,0	5	02.06.2006	Panu Harmo
AS-84.3284	Project in Automation Technology	4,7	2	17.09.2007	Ilkka Leppänen
AS-84.3400	Seminar on Automation Technology	2,0	3	05.05.2008	Aarne Halme
STUDIES IN MINOR		20,7	2,29		
Machine Design (Mechatronics), being grouped		20,7	2,29		
AS-74.3135	Servomechanisms	2,0	1	14.05.2007	Heikki Koivo
AS-84.3126	Machine Perception P	2,0	1	07.01.2008	Arto Visala
Kon-41.3023	Hydraulics and Pneumatics	3,3	1	16.06.2010	Matti Pietola
Kon-41.4002	Product Development Project	6,7	4	25.04.2008	Kalevi Ekman
Kon-41.4190	Mechatronics and Hydraulics	3,3	1	28.08.2008	Matti Pietola
T-106.1223	Data Structures and Algorithms Y	3,3	3	15.06.2006	Ari Korhonen
ELECTIVE STUDIES		20,0	3,47		
Other elective studies, being grouped		20,0	3,47		
AS-0.110	XML-based Description Languages	2,0	2	10.12.2004	Janne Kalliola
AS-0.300	Johdatus opiskeluun automaatio- ja systeemitekniiikan koulutusohjelmassa	0,5	hyv	09.06.2003	
AS-74.102	Basic Mathematics for Control Theory	1,0	5	23.10.2004	Kai Zenger
AS-74.106	Introduction to Matlab Software 1	0,5	hyv	04.03.2004	Heikki Koivo
AS-84.3284	Project in Automation Technology	1,3	2	17.09.2007	Ilkka Leppänen
Eri-0.145	Orientation Course for New Students	1,0	hyv	12.11.2002	
Kie-98.008	Preparation Course for the Swedish Language Test	1,0	hyv	14.01.2005	Eija Ketelä
Kie-98.450	German 3	2,0	2	02.12.2004	Caren Schröder

29.06.2010 10:25

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Code	Name	Cr (ocr)	Grade	Date	Teacher
Kie-98.6041	German 4A	1,3	2	23.02.2006	Eeva Elomaa
Kie-98.6042	German 4B	1,3	2	27.04.2006	Eeva Elomaa
T-106.1203	Basics of Programming L (Java)	3,3	5	29.08.2008	Juha Sorva
T-106.1208	Basics of Programming Y (Python)	3,3	5	08.05.2009	Kerttu Pollari-Malmi
Vie-98.1223	Meeting Skills	1,3	hyv	22.11.2006	Tarja Tuomikoski
STUDY MODULE		7,0	-		
Master's thesis , being grouped		-	-		
AS-84.kyps	Maturity Test suomen kielellä	-	hyv	17.06.2010	Aarne Halme, Inkeri Lehtimaja
Practical training , being grouped		7,0	-		
Harj-0.100	Working Environment Training	3,0	hyv	15.12.2009	Arto Visala
Harj-0.101	Professional Training	4,0	hyv	15.12.2009	Arto Visala

29 June 2010

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

Grading scales: grades given to courses are 5 (best), 4, 3, 2, 1 or pass (hyv, *). National Language Requirement Test: good knowledge (ht) and satisfactory knowledge (tt). Bachelor's thesis and modules to be included in the doctoral degrees (School of Science and Technology): pass with distinction (kh) and pass (hyv).

Those courses which are graded 5, 4, 3, 2 and 1 are included in the credit-weighted average grade. Average grade has been calculated if the group includes at least two courses graded with the scale 5-1 or the extent of the course/s graded with the scale 5-1 is at least half of the extent of the group. If this provision is not met, average grade is not calculated.

Only courses with the weight greater than 0 are taken into account for the weighted average grade (School of Economics).