Student information

First names	Juha-Matti Kalevi
Last name	Tilli
Student number	53001M
Date of birth	22 Jan 1987

Study rights leading to a degree

AALTO DOCTORAL PROGRAMME IN ELECTRICAL ENGINEERING, LICENTIATE

Education type	Licentiate
Valid	19 Nov 2015-30 Jan 2023
Start date	1 Aug 2015
Completed degrees	Licentiate of Science (Technology), 30 Jan 2023
Study right status	Graduated
Degree programme	Aalto Doctoral Programme in Electrical Engineering

AALTO DOCTORAL PROGRAMME IN ELECTRICAL ENGINEERING

Education type	Doctor
Valid	19 Nov 2015-
Start date	1 Aug 2015
Study right status	Active
Academic year registrations	Autumn 2023, attending
	Spring 2024, attending
Degree programme	Aalto Doctoral Programme in Electrical Engineering
Research field	Networking Technology

DEGREE PROGRAMME IN ELECTRONICS AND ELECTRICAL ENGINEERING

Education type	Bachelor's and Master's Degree
Valid	1 Aug 2006-9 Feb 2015
Start date	1 Aug 2006
Completed degrees	Bachelor of Science (Technology), 10 Feb 2014
	Master of Science (Technology), 9 Feb 2015
Study right status	Graduated
Active phase	-
Degree programme	Degree Programme in Electronics and Electrical Engineering

Open university studies

OPEN UNIVERSITY STUDIES

Education type	Open University studies
Courses	Fundamentals of Network Media, 1 Jan 2005-
	Separately specified courses (Open University), 1 Jan 2005-
Study right status	Expired

OPEN UNIVERSITY STUDIES

Education type	Open University studies
Courses	Basic Course in Programming Y1, 7 Jan 2004-
	Separately specified courses (Open University), 7 Jan 2004-
Study right status	Expired

Degrees

Course name and code	Scope	Lang	Grade	Date
AALTO DOCTORAL PROGRAMME IN ELECTRICAL ENGINEERING (DPL-ELEC)	**40 cr**		**Pass**	**30 Jan 2023**
GENERAL RESEARCH STUDIES (ELEC901-Y)	**5 cr**		**Pass**	**19 Dec 2016**
History of Science D (MS-E1011)	5 cr	fi	Pass	19 Dec 2016
Research field studies				
NETWORKING TECHNOLOGY (S041Z)	**35 cr**		**PassD**	**29 May 2017**
Network service provisioning D (ELEC-E7420)	5 cr	en	2	19 Dec 2016
Operator Business D (ELEC-E7820)	5 cr	en	4	28 Oct 2016
Internet Forum V D (ELEC-A7901)	5 cr	en	3	9 Jan 2017
Modelling and Simulation D (ELEC-E7460)	5 cr	en	5	22 Dec 2016
Coding Methods D (ELEC-E7240)	5 cr	en	5	15 Feb 2017
Radio Resource and Spectrum Management D (ELEC-E7220)	5 cr	en	5	29 May 2017
Performance Analysis D (ELEC-E7450)	5 cr	en	5	24 May 2017
LICENTIATE THESIS (DP-ELEC-LICT)	**0 cr**		**Pass**	**27 Jan 2023**
Licentiate Thesis (S041Z.lict)		en	Pass	27 Jan 2023
DEGREE PROGRAMME IN ELECTRONICS AND ELECTRICAL ENGINEERING (EST2)	**120.5 cr**		**PassHons**	**9 Feb 2015**
ELECTIVE STUDIES (EST) (S901-W)	**20.5 cr**		**5**	**15 Dec 2014**
Grade average 4,66				
Fundamentals of Network Media (T-110.250)	4.5 cr	fi	5	31 May 2005
Photonics and Integrated Optics (S-104.3410)	5 cr	en	5	27 Oct 2009
Optical Communications (S-108.3110)	5 cr	en	4	17 Dec 2009
Searching for Scientific Information (Eri-0.5014)	2 cr	en	Pass	15 Dec 2014
Training (higher university degree) (Harj-0.1002)	4 cr	fi	Pass	11 Nov 2014
MASTER'S THESIS (EST) (S901-D)	**30 cr**		**5**	**20 Oct 2014**
Grade average 5				

Course name and code	Scope	Lang	Grade	Date
Master's Thesis (S-104.D)	30 cr	fi	5	20 Oct 2014
Maturity Test (S-104.K)	0 cr	fi	Pass	17 Apr 2014
MICRO- AND NANOTECHNOLOGY (S3010)	**20 cr**		**5**	**15 May 2014**
Grade average 4,75				
MICRO- AND NANOSCIENCES (S345-3)	**20 cr**		**5**	**15 May 2014**
Grade average 4,75				
Optoelectronics (S-104.3310)	5 cr	en	5	22 May 2013
Semiconductor Technology, laboratory course (S-69.3116)	5 cr	fi	4	15 May 2014
Nanotechnology (S-104.3610)	5 cr	en	5	12 Dec 2013
Microfabrication (S-69.3123)	5 cr	en	5	11 Dec 2013
SOFTWARE TECHNOLOGY (T3001)	**40 cr**		**5**	**10 Dec 2014**
Grade average 5				
BASIC MODULE IN COMPUTER SCIENCE (T204-1)	**20 cr**		**5**	**6 Jun 2014**
Grade average 5				
Data Structures and Algorithms Y (T-106.1223)	5 cr	fi	5	3 Jun 2008
Introduction to Software Engineering (T-76.3601)	5 cr	en	5	19 May 2014
Introduction to Datacommunications and Multimedia Technology (T-110.1100)	5 cr	fi	5	6 Jun 2014
Databases (CSE-A1200)	5 cr	fi	5	20 May 2014
INTERMEDIATE MODULE IN SOFTWARE TECHNOLOGY (T220-2)	**20 cr**		**5**	**10 Dec 2014**
Grade average 5				
Operating Systems (T-106.4155)	5 cr	fi	5	25 Oct 2013
Introduction to Compiling (T-106.4200)	5 cr	fi	5	8 Dec 2013
Web Software Development (CSE-C3210)	5 cr	en	5	7 Apr 2014
UNIX Application Programming (S-38.3600)	5 cr	en	5	10 Dec 2014
METHODOLOGICAL PRINCIPLES (EST) (S901-M)	**10 cr**		**5**	**6 May 2014**
Grade average 4,5				

Course name and code	Scope	Lang	Grade	Date
Design of Experiments and Statistical Models (Mat-2.2103)	5 cr	fi	5	3 Mar 2014
Introduction to Statistical Inference (MS-C2104)	5 cr	fi	4	6 May 2014
DEGREE PROGRAMME IN ELECTRONICS AND ELECTRICAL ENGINEERING (EST1)	**182.5 cr**		**PassHons**	**10 Feb 2014**
BACHELOR'S THESIS AND SEMINAR (EST) (S901-K)	**10 cr**		**PassD**	**12 Dec 2007**
Maturity Test (EST.kyps)	0 cr	fi	Pass	12 Dec 2007
Bachelor's Thesis and Seminar (EST.kand)	10 cr	fi	PassD	12 Dec 2007
Puolijohderakenteiden röntgendiffraktion sovitusanalyysi				
GENERAL STUDIES WITH EXTENDED CURRICULUM IN SCIENCE (EST) (S951-P)	**82.5 cr**		**5**	**24 Nov 2009**
Grade average 4,97				
Basic Course in Programming Y1 (T-106.216)	7.5 cr	fi	5	24 May 2004
Computer as a Tool (T-106.1001)	2 cr	fi	4	23 Oct 2006
National Language Requirement (Swedish) Oral Test (Kie-98.5002)	1 cr	fi	SAT	20 Sep 2006
National Language Requirement (Swedish) Writing Test (Kie-98.5001)	1 cr	fi	SAT	20 Sep 2006
Digital Technology, basic course (S-88.1110)	3 cr	fi	5	27 Oct 2006
Circuit Analysis 1 (S-55.1210)	5 cr	fi	5	20 Dec 2006
Basic Course in Mathematics L1 (Mat-1.1010)	10 cr	fi	5	19 Dec 2006
Physics I (AS, Bio, Est, Tlt) (S-104.1010)	6 cr	fi	5	21 Dec 2006
Basic Course in Mathematics L2 (Mat-1.1020)	10 cr	fi	5	7 May 2007
Concise physics laboratory experiments (Tfy-3.1530)	2 cr	fi	5	14 May 2007
Basic Course in C programming (AS-0.1101)	4 cr	fi	5	5 Jun 2007
Physics II (AS, Bio, Est, Tlt) (S-104.1020)	6 cr	fi	5	14 May 2007
Orientation Course for Studies in Electronics and Electrical Engineering (S-26.1100)	1 cr	fi	Pass	31 May 2007
English Reading/Writing Test (Kie-98.1600)	1 cr	en	Pass	7 Oct 2008
Basic Course in Mathematics L3 (Mat-1.1030)	10 cr	fi	5	16 Dec 2008

Course name and code	Scope	Lang	Grade	Date
Applied Probability A (Mat-1.2600)	5 cr	fi	5	22 Dec 2008
Physics III (Est) (S-114.1327)	6 cr	fi	5	14 May 2009
English Oral Skills Test (Kie-98.1601)	2 cr	en	Pass	24 Nov 2009
PROGRAMME STUDIES (EST) (S901-O)	**20 cr**		**5**	**18 Dec 2008**
Grade average 5				
Circuit Analysis 2 (S-55.1220)	5 cr	fi	5	16 May 2007
Digital Signal Processing and Filtering (T-61.3010)	6 cr	fi	5	7 May 2007
Fundamentals of Measurements A (S-108.1010)	4 cr	fi	5	17 Dec 2008
Signals and Systems (S-72.1110)	5 cr	fi	5	18 Dec 2008
COMPREHENSIVE COURSE IN BASIC SCIENCES (F3011)	**20 cr**		**4**	**26 May 2008**
Grade average 4,4				
BASIC MODULE IN BASIC SCIENCES (EST) (S951-1)	**20 cr**		**4**	**26 May 2008**
Grade average 4,4				
Additional Course in Physics 1 (SFT) (S-104.1310)	2 cr	fi	5	20 Dec 2006
Additional Course in Physics 2 (SFT) (S-104.1320)	2 cr	fi	5	15 May 2007
C/C++ programming (AS-0.1102)	4 cr	fi	5	7 Jan 2008
Basic Course in Mathematics L4 (Mat-1.1040)	10 cr	fi	4	7 May 2008
Modern Physics: Computational Virtual Laboratory (Sf) (S-114.1427)	2 cr	fi	4	26 May 2008
ELECTROPHYSICS (S3025)	**40 cr**		**5**	**13 Dec 2013**
Grade average 4,58				
BASIC MODULE IN ELECTRONICS AND ELECTRICAL ENGINEERING (S110-1)	**20 cr**		**5**	**15 Jun 2009**
Grade average 4,67				
Laboratory Course in Electronics (S-87.1030)	2 cr	fi	Pass	13 Apr 2007
Static Field Theory (S-96.1111)	5 cr	fi	5	30 Oct 2007
Dynamic Field Theory (S-96.1121)	5 cr	fi	5	20 Dec 2007
Electronics I (S-87.1010)	5 cr	fi	5	31 Jan 2008
Analogue Control (AS-74.2111)	3 cr	fi	3	15 Jun 2009

Course name and code	Scope	Lang	Grade	Date
INTERMEDIATE MODULE IN ELECTROPHYSICS (S112-2)	**20 cr**		**5**	**13 Dec 2013**
Grade average 4,5				
Optics (S-108.2110)	5 cr	fi	5	12 Jan 2009
Basic Course on Semiconductor Technology (S-69.2101)	5 cr	fi	5	8 Jan 2010
Computational Science (S-114.1100)	5 cr	fi	3	16 Dec 2010
Fundamentals of Radio Engineering (S-26.2110)	5 cr	en	5	13 Dec 2013
ELECTIVE STUDIES (EST) (S901-V)	**10 cr**		**5**	**13 May 2009**
Grade average 4,5				
Introduction to Economics (TU-91.1001)	5 cr	fi	4	15 Dec 2007
Waveguides and Resonators (S-96.3211)	5 cr	fi	5	13 May 2009

Study modules

Course name and code	Scope	Lang	Grade	Date

No completed credits

Courses

Course name and code	Scope	Lang	Grade	Date
Individual Studies in Physics V D (PHYS-E0544)	1 cr	en	Pass	11 Oct 2019
GPU computing in Practice				
Writing Doctoral Research (w) D (LC-1340)	3 cr	en	Pass	1 Jun 2018
Risk Analysis D (Mat-2.3117)	5 cr	fi	4	9 Apr 2014
Studies completed at another university (FINU-ELEC) *	3 cr	fi	Pass	29 Aug 2013
Tampere University of Technology. Optoelektroniikan kesäkoulu				

Partially completed courses

Course name and code	Scope	Lang	Grade	Date

No completed credits

Grade average 4,73

Total course credits 355 cr

The degree includes studies completed elsewhere with a total of 3 cr

GRADING SCALES AND DESCRIPTIONS FOR COMPLETED STUDIES

The scope of studies is measured in ECTS credits (cr). The average workload of 1 600 hours needed to complete one academic year of studies corresponds to 60 credits.

The average grade of study attainments is calculated from courses which have been graded on a scale from 0 to 5 (fail–excellent) and which the student has passed. The average grade is weighted according to the courses' scopes in credits. The average grade of a study module is only displayed if at least half of the scope of the study module has been graded using the scale from 0 to 5.

* Studies completed elsewhere

Language of study

Finnish	266 cr
Swedish	0 cr
English	89 cr

Language of study: fi (Finnish), sv (Swedish), en (English).
The language of study is not defined for all completed studies.

Grading scale for completed studies

5 (excellent), 4 (very good), 3 (good), 2 (satisfactory), 1 (passable), 0 (fail)

Pass (Pass), Fail (Fail)

Grading scale for the second national language

G (Good), SAT (Satisfactory), Fail (Fail)

Grading scales for theses

5 (excellent), 4 (very good), 3 (good), 2 (satisfactory), 1 (passable), 0 (fail)

Pass (Pass), Fail (Fail)

PassD (Pass with Distinction), Pass (Pass), Fail (Fail)

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