

CERTIFICATE

of the Bachelor's Degree

**Mullissa, Henock Girmachew
(100978-203C)**

is entitled to use the title

BACHELOR OF ENGINEERING

Henock Girmachew Mullissa has studied a bachelor's degree in English and taken this degree according to the Act (351/2003).

The student has completed the maturity test in English language.

Kokkola 21 September 2012



Pekka Hulkko
President



Hannele Teir
Head of the Unit

Mullissa, Henock Girmachew
(100978-203C)

has taken the degree of Bachelor of Engineering in English
consisting of 240 cr in the Degree Programme in Information Technology.

DEGREE STRUCTURE

BASIC STUDIES	77,00 cr
PROFESSIONAL STUDIES	111,00 cr <i>good 3</i>
OPTIONAL STUDIES	18,00 cr
BACHELOR'S THESIS	15,00 cr <i>excellent 5</i>
<i>Evaluation of HTML5 for its Support in Building Offline Web Applications</i>	
WORK PLACEMENT	30,00 cr
TOTAL	251,00 cr

21.09.2012

Student **0801414 Henock Girmachew Mullissa**

100978-203C

Degree programme **Degree Programme in Information Technology**

240,00 cr

Total **251,00 cr**

Study modules and study course

Credit

Mark

BASIC STUDIES

77,00 cr

Orientation to Studies	3,00 cr	S	passed
Computing and Information Literacy	3,00 cr	2	satisfactory
Research and reporting	2,00 cr	S	passed
Basic Course in Statistics	2,00 cr	2	satisfactory
Differential Calculus	3,00 cr	3	good
Integral Calculus	3,00 cr	4	good
Matrices and Numerical Methods	3,00 cr	4	good
Mathematics for Computing	2,00 cr	1	satisfactory
Wave Motion and Quantum Physics	2,00 cr	3	good
Laboratory Practices in Physics	2,00 cr	3	good
Finnish Language Communication	6,00 cr	3	good
Communication Skills	3,00 cr	5	excellent
Written Skills	3,00 cr	5	excellent
Professionally Speaking	3,00 cr	3	good
Algebra	5,00 cr	k1) S	passed
Geometry and Trigonometry	4,00 cr	k1) S	passed
Basics in Programming	6,00 cr	5	excellent
Basic Course in Physics	5,00 cr	k1) S	passed
Entrepreneurship	3,00 cr	2	satisfactory
Electrophysics	3,00 cr	k1) S	passed
Industrial Economics	5,00 cr	4	good
Chemistry	3,00 cr	k1) S	passed
Leadership	3,00 cr	5	excellent

PROFESSIONAL STUDIES

111,00 cr

Electric Circuits	3,00 cr	3	good
Electronic Components	3,00 cr	3	good
Electronics	3,00 cr	2	satisfactory
Digital Techniques	4,00 cr	3	good
Embedded Systems	6,00 cr	2	satisfactory
Information Systems	6,00 cr	2	satisfactory
Object-Oriented Programming	3,00 cr	2	satisfactory
C Programming Language	5,00 cr	4	good
Relation Databases & SQL	4,00 cr	2	satisfactory
Operating Systems	4,00 cr	3	good
Information Technology Seminars	4,00 cr	4	good
Digital Media	3,00 cr	1	satisfactory
IP-Networks	4,00 cr	3	good
Cisco Networking Academy 1	4,00 cr	4	good
Project Management	3,00 cr	2	satisfactory
	3,00 cr	3	good

LINE-SPECIFIC PROFESSIONAL STUDIES

52,00 cr

Software Engineering

29,00 cr

Java Advanced Programming	5,00 cr	4	good
Algorithms and Data Structures	3,00 cr	1	satisfactory
Modelling Techniques	3,00 cr	3	good
Software Engineering	3,00 cr	2	satisfactory
Embedded Software	4,00 cr	4	good
Software Business	3,00 cr	4	good

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<u>Study modules and study course</u>	<u>Credit</u>	<u>Mark</u>
Software Project	4,00 cr	4 good
Enterprise IT Infrastructure	4,00 cr	3 good
Media and Communication Technology	23,00 cr	
Cisco Networking Academy 2	4,00 cr	3 good
Cisco Networking Academy 3	3,00 cr	4 good
Cisco Networking Academy 4	3,00 cr	4 good
Mobile Networks	4,00 cr	1 satisfactory
Software Development for Mobile Devices 1	4,00 cr	4 good
Mobile Software Development II	5,00 cr	3 good
OPTIONAL STUDIES	18,00 cr	
Finnish for Foreigners 3	3,00 cr	1 satisfactory
Finnish Society and Culture	3,00 cr	2 satisfactory
Career Planning	3,00 cr	S passed
Basics in C Programming	4,00 cr	S passed
ASP.NET -programming	5,00 cr	S passed
BACHELOR'S THESIS		
Evaluation of HTML5 for its Support in Building Offline Web Applications	15,00 cr	5 excellent
Work Placement		
Work Placement	30,00 cr	S passed

Transferred Credits from Studies Elsewhere

k1) Bachelor of Education in Chemistry (23,00 cr) 17.06.2003
Debub University

Kokkola 21 September 2012

Mats Albäck
Head of Degree Programme

