



Examensbevis

Degree Certificate

TEKNOLOGIE MASTEREXAMEN

Huvudområde: Elektroteknik

Inriktning: Telekommunikationssystem

DEGREE OF MASTER OF SCIENCE (120 CREDITS)

Main field of study: Electrical Engineering

Specialization: Telecommunication Systems

HAR AVLAGTS AV | HAS BEEN AWARDED TO

Bamshad Gholamzadeh Shirmohammadi

860322-5338

A handwritten signature in blue ink, which appears to read "Anders Hederstierna".

Anders Hederstierna
REKTOR | VICE-CHANCELLOR

DATUM FÖR AVSLUTAD UTBILDNING
DATE OF COMPLETION

2015-06-29

EXAMENSBEVISET ÄR UTFÄRDAT
THE DEGREE CERTIFICATE IS ISSUED

2015-08-10

Blekinge Tekniska Högskola

Blekinge Institute of Technology, Sweden



Examensbevis *Degree Certificate*

Bamshad Gholamzadeh Shirmohammadi

NAMN | NAME

860322-5338

PERSONNUMMER | IDENTIFICATION NUMBER OR CODE

Har genomgått utbildningsprogrammet: Masterprogram i Elektroteknik med inriktning mot Telekommunikationssystem.

Enligt bestämmelserna i högskoleförordningen (SFS 1993:100 med ändringar 2006:1053) är fordringarna för Masterexamen uppfyllda.

Masterexamen är en examen på avancerad nivå, omfattande 120 högskolepoäng (2 år).

Has completed the study programme: Master of Science Programme in Electrical Engineering with emphasis on Telecommunication Systems.

In accordance with the Swedish Higher Education Ordinance (SFS 1993:100 with amendment 2006:1053) the requirements for the Degree of Master (120 credits) are fulfilled.

A Degree of Master (120 credits) is a second cycle qualification, comprising 120 credits (2 years).

Kurs Course	Hp Credits	Betyg Grade	Datum Date
Elektroteknik Electrical Engineering			
Network Management <i>Network Management</i>	7.5	Tre <i>Three</i>	2012-05-08
Simulering <i>Simulation</i>	7.5	Tre <i>Three</i>	2012-05-22
Programvaruutveckling för telekommunikationssystem <i>Software Development for Telecommunication Systems</i>	7.5	Fyra <i>Four</i>	2012-06-07
Tillämpad Network Management <i>Applied Network Management</i>	7.5	Godkänd* <i>Pass</i>	2012-09-14
TCP/IP Internetteknik <i>TCP/IP Internetworking</i>	7.5	Fem <i>Five</i>	2012-11-08
Mobila tjänster <i>Mobile Services</i>	7.5	Fyra <i>Four</i>	2012-12-03
Fördjupningskurs i telekommunikationssystem <i>Advanced Topic in Telecommunication Systems</i>	7.5	Fyra <i>Four</i>	2013-01-16
Verktyg för analys av nätverk och tjänster <i>Computer Networking Software Tools</i>	7.5	Fyra <i>Four</i>	2015-06-04
Nätverkssäkerhet <i>Network Security</i>	7.5	Fyra <i>Four</i>	2015-06-29
Masterarbete i elektroteknik med inriktning mot telekommunikationssystem <i>Master's Thesis (120 credits) in Electrical Engineering with emphasis on Telecommunication Systems</i>	30.0	C** <i>C</i>	2015-06-29

Titel | Title:

Relationships between Quality of experience and TCP flag ratios for web services

Sign.

2(3)



Examensbevis *Degree Certificate*

Bamshad Gholamzadeh Shirmohammadi

NAMN | NAME

860322-5338

PERSONNUMMER | IDENTIFICATION NUMBER OR CODE

Kurs Course	Hp Credits	Betyg Grade	Datum Date
Övriga kurser Other Courses			
Forskningsmetodik med inriktning mot ingenjörsvetenskap <i>Research Methodology with emphasis on Engineering Science</i>	7.5	Tre Three	2013-01-15
Komplex analys och transformenter <i>Complex Analysis and Transforms</i>	7.5	Fem Five	2014-04-03
Stokastiska processer <i>Random Processes</i>	7.5	Fyra Four	2014-04-03

Särskilda upplysningar

Ett studieår som omfattar heltidsstudier i 40 veckor motsvaras av 60 högskolepoäng (Hp).

Som betyg användes något av uttrycken: Tre (Godkänd), Fyra (Icke utan beröm godkänd) eller Fem (Med beröm godkänd).

* Som betyg användes endast uttrycket: Godkänd.

** Som betyg användes något av uttrycken: A Utmärkt, B Mycket bra, C Bra, D Tillfredsställande eller E Tillräckligt.

Special notes

One year of full-time study for 40 weeks will correspond to 60 credits.

The following grades are in use: Three (Pass), Four (Pass with credit) or Five (Pass with distinction).

* *The only grade given is: Pass.*

** *The following grades are in use: A Excellent, B Very good, C Good, D Satisfactory or E Sufficient.*

På rektors vägnar

On behalf of the Vice-Chancellor

Anett Fridolfsson

Examenshandläggare

Degree Officer



Blekinge Tekniska Högskola

Blekinge Institute of Technology, Sweden

DIPLOMA SUPPLEMENT

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Information identifying the holder of the qualification

- 1.1 Family name(s): Gholamzadeh Shirmohammadi
- 1.2 Given name(s): Bamshad
- 1.3 Date of birth (day/month/year): 22 March 1986
- 1.4 Student identification number or code (if available): 860322-5338

2. Information identifying the qualification

- 2.1 Name of qualification and (if applicable) title conferred (in original language): Teknologie Masterexamen.
- 2.2 Main field(s) of study for the qualification: Electrical Engineering.
- 2.3 Name and status of awarding institution (in original language): Blekinge Tekniska Högskola (state higher education institution with right to award third cycle qualification in specific domains established in 1999).
- 2.4 Name and status of institution (if different from 2.3) administering studies (in original language): Not applicable.
- 2.5 Language(s) of instruction/examination: English.

3. Information on the level of the qualification

- 3.1 Level of qualification: Second cycle. For more information on higher education in Sweden, please see point 8, appendix 2.
- 3.2 Official length of programme: 120 credits. The extent of a course or study programme shall be denoted by credits, with full-time study during a normal academic year of 40 weeks corresponding to 60 credits. The system is compatible with ECTS credits.
- 3.3 Access requirement(s): A person meets the general entry requirements for courses or study programmes that lead to the award of a second cycle qualification if he or she:
 - possesses a first cycle qualification comprising at least 180 credits or a corresponding qualification from abroad, or
 - by virtue of courses and study programmes in Sweden or abroad, practical experience or some other circumstance has the aptitude to benefit from the course or study programme.

4. Information on the contents and results gained

- 4.1 Mode of study: Full-time equivalent.

Sign.

APR



Bamshad Gholamzadeh Shirmohammadi

Name

860322-5338

Student identification number or code

4.2 Programme requirements

Scope

A Degree of Master (120 credits) is awarded after the student has completed the courses required to gain 120 credits with a defined specialisation determined by each higher education institution itself, of which at least 60 credits are for specialised study in the principal field (main field of study) of the study programme. In addition the prior award of a Degree of Bachelor, Degree of Bachelor of Fine Arts, professional or vocational qualification of at least 180 credits or a corresponding qualification from abroad is required.

The requirement of the prior award of a qualification may be waived for a student admitted to the programme without the basic entry requirement in the form of a qualification. This does not, however, apply if a waiver was granted during admission pursuant to the second paragraph of Section 28 of the Chapter 7 of the Higher Education Ordinance (1993:100) on the grounds that the qualification had not yet been issued.

Outcomes

Knowledge and understanding

For a Degree of Master (120 credits) the student shall

- demonstrate knowledge and understanding in the main field of study, including both broad knowledge of the field and a considerable degree of specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study.

Competence and skills

For a Degree of Master (120 credits) the student shall

- demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrate the ability in speech and writing both nationally and internationally to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or autonomous employment in some other qualified capacity.

Judgement and approach

For a Degree of Master (120 credits) the student shall

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work
- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

Independent project (degree project)

A requirement for the award of a Degree of Master (120 credits) is completion by the student of an independent project (degree project) for at least 30 credits in the main field of study. The degree project may comprise less than 30 credits, however no less than 15 credits, if the student has already completed an independent project in the second cycle for at least 15 credits in the main field of study or the equivalent from a programme of study outside Sweden.



Bamshad Gholamzadeh Shirmohammadi

Name

860322-5338

Student identification number or code

Miscellaneous

Specific requirements determined by each higher education institution itself within the parameters of the requirements laid down in this qualification descriptor shall also apply for a Degree of Master (120 credits) with a defined specialisation.

- 4.3 **Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained (if this information is available on an official transcript this should be used here):** See Degree Certificate.
- 4.4 **Grading scheme and, if available, grade distribution guidance:** See Degree Certificate.
- 4.5 **Overall classification of the qualification (in original language):** Not applicable for Swedish qualifications.

5. Information on the function of the qualification

5.1 Access to further study:

The qualification gives basic eligibility to third cycle studies. For more information on higher education in Sweden, please see point 8, appendix 2.

5.2 Professional status (if applicable):

No special information is indicated; gives access to employment.

6. Additional information

6.1 Additional information: None.

6.2 Further information sources:

Blekinge Institute of Technology
SE - 371 79 Karlskrona
+46 (0)455-385000
<http://www.bth.se>

ENIC-NARIC Sweden
Swedish Council for Higher Education
Box 45093
SE - 104 30 Stockholm
<http://www.uhr.se>

7. Certification of the supplement

7.1 Date: 10 August 2015

7.2 Signature

A handwritten signature in blue ink, appearing to read "Anett Fridolfsson".

Anett Fridolfsson

7.3 Capacity: Degree Officer

7.4 Official stamp or seal:



BLEKINGE INSTITUTE OF TECHNOLOGY

8. Information on the national higher education system

Information on the Swedish higher education system cf enclosure.

Sign.

A handwritten signature in blue ink, appearing to read "APR".

3(3)