



## DIPLOMA SUPPLEMENT

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of this supplement is to provide sufficient independent data to improve the 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 of any value-judgements, equivalence statements or suggestions about recognition. Information should be provided in all eight sections. Where information is not provided, a reason should be given.

### 1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s)	N.N.
1.2 Given name(s)	N.N.
1.3 Date of birth (day/month/year)	xx/xx/xxxx
1.4 Student identification number or code	xxxxxx

### 2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification and title conferred (in original language)	Diplomi-insinööri Master of Science (Technology)
2.2 Main field(s) of study for the qualification	Degree Programme in Mechanical Engineering
2.3 Name (in original language) and status of awarding institution	Oulun yliopisto (University of Oulu), state recognised university. The quality assurance system of the university has passed the audit conducted by the Finnish Higher Education Evaluation Council.
2.4 Name and status of institution (if different from 2.3) administering studies	Not applicable
2.5 Language(s) of instruction/examination	Finnish

### 3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification	See 8, second-cycle university degree.
3.2 Official length of programme	At least 120 credits, appr. 2 years of full-time study
3.3 Access requirement(s)	The admission requirement for the second-cycle university degree is a first-cycle degree or education of a corresponding level. There is numerus clausus, i.e. restricted entry, to all fields of study.

### 4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study	Full-time
4.2 Programme requirements	See 8.1.2., second-cycle university degree. The degree is composed of following studies: module of the option, 30/40 credits, one advanced module, 20/30 credits and one supplementary module, 20/30 credits or two supplementary modules, 20/30 credits, special module, 0/10 credits and master's thesis, 30 credits. The extent of advanced studies shall be a minimum of 60 credits.
4.3 Programme details	See transcript of records. Thesis topic as follows: xxxx xxxxx xxxxx (xxxx xxxxx xxxx in English )
4.4 Grading scheme and, if available, grade distribution guidance	See transcript of records for grading scheme.



**4.5 Overall classification of the qualification** -

**5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

**5.1 Access to further study**

Eligible for doctoral studies

**5.2 Professional status**

Under the Finnish legislation, a person who has taken the degree of "diplomi-insinööri" is qualified for posts or positions in the public sector for which the qualification requirement is a second-cycle higher education degree. In some cases, the qualification requirement also includes the completion of studies in certain specified fields of study.

The degree is also accepted as requirement for professional career.

The degree falls under the Article 11 of the Directive 2005/36/EC of the European Parliament and of the Council on the recognition of professional qualifications, level e.

**6 ADDITIONAL INFORMATION**

**6.1 Additional information** -

**6.2 Further information sources**

Oulun yliopisto, <http://www oulu.fi/yliopisto/>  
Ministry of Education and Culture, [www.minedu.fi](http://www.minedu.fi)  
The Finnish National Board of Education, The National Academic Recognition Information Centre (NARIC), [www.oph.fi/recognition](http://www.oph.fi/recognition)  
The National Coordination Point for the European Qualifications Framework (EQF), [www.oph.fi/qualificationsframework](http://www.oph.fi/qualificationsframework)  
The Finnish Higher Education Evaluation Council, [www.kka.fi](http://www.kka.fi)

**7 CERTIFICATION OF THE SUPPLEMENT**

**7.1 Date**

16/05/2013

**7.2 Signature**

N.N.

Chief Academic Officer



**7.3 Capacity**

**7.4 Official stamp or seal**

**8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM**

The description of the higher education system has been prepared by the Finnish National Board of Education and approved by the Ministry of Education and Culture.  
See the enclosed attachment.

28.05.2013

N.N.

xxxxxx

xxxxxx-xxxx

Date of enrolment

01.08.2004

**RIGHT OF STUDY**

Decree on Degrees	Decree on Degrees 794/2004
Degree	Master of Science (Technology)
Degree Programme	Degree Programme in Mechanical Engineering
Area of specialization	Industrial Engineering Option, Mechanical Engineering
Major subject	Mechanical Engineering
Valid	01.08.2004 - 31.07.2013
Date of commencement	30.03.2012
Year course	051

**DEGREE**

		Credits	Date	Examiner
DI	Master of Science (Technology)	120,50	16.05.2013	Faculty of Tech

**COMPLETED COURSES**

Module of the Option		Credits	Grade	Date	Examiner
A400076	Module of the Option Industrial Engineering	38,00	3	30.04.2013	Dept. of mech.
555112S	Research Project in Industrial Engineering and Management xxxxxx	5,00	3	31.03.2011	Muhos
555240A	Basic Course in Product Development	3,00	2	30.11.2010	Kropsu-Vehkaperä, Haapasalo
555320S	Strategic Management	5,00	3	02.12.2008	Kess
555321S	Risk Management	3,00	3	29.12.2008	Kess
555322S	Production Management	3,00	2	21.04.2009	Haapasalo
555340S	Technology Management	4,00	1	18.02.2009	Haapasalo
555380S	Quality Management	5,00	3	15.09.2010	Kujala, Kauppila
555381S	Project Leadership	5,00	3	02.12.2008	Jokinen
721704P	Business Logistics	5,00	2	10.12.2009	Juga

Total number of credits 38,00

**Advanced Module**

A400077	Advanced Module Industrial Engineering	20,00	4	30.04.2013	Dept. of mech.
555323S	Purchase Management	3,00	4	15.03.2010	Kess
555324S	Advanced Supply Chain Management	7,00	4	20.09.2012	Kess
555325S	Human Resources Management	7,00	4	20.09.2012	Kess
555343S	Product Data Management	3,00	3	07.12.2009	Kropsu-Vehkaperä, Haapasalo

Total number of credits 20,00

28.05.2013

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**COMPLETED COURSES**

		Credits	Grade	Date	Examiner
<b>Supplementary Module</b>					
A400078	Supplementary Module Production Technology	20,50	2	30.04.2013	Dept. of mech.
463055S	Manufacturing Technology II	5,00	2	28.03.2009	Lappalainen
463062S	Quality in Production	3,50	3	12.12.2009	Juuso
463064S	Manufacturing of Electronics Products	5,00	2	20.02.2010	Lappalainen
463065A	Manufacturing of Plastics Products	3,50	2	05.12.2009	Karjalainen
464085A	Patenting	3,50	1	11.11.2006	Niskanen

Total number of credits 20,50

**Special Module**

A400079	Special Module	12,00	2	30.04.2013	Dept. of mech.
031017P	Differential Equations	4,00	1	08.05.2010	Hamina
031021P	Probability and Mathematical Statistics	5,00	3	17.04.2010	Ruotsalainen
460002S	Practical Training II	3,00	pass	23.05.2011	Pyykkönen

Total number of credits 12,00

**Master's Thesis and Maturity Test**

A400080	Master's Thesis and Maturity Test	30,00	pass	30.04.2013	Dept. of mech.
469093S	Master's Thesis in Industrial Engineering Supervisors professor Pekka Kess and professor Kauko Lappalainen	30,00	4	30.11.2011	Dept. of mech.
469090S	The Maturity Test for Master's Degree	0,00	pass	16.11.2011	Lappalainen

Total number of credits 30,00

Total of study units 120,50

SIGNATURE

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 N.N.  
 Academic Affairs Secretary


28.05.2013

N.N.

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The extent of degrees:

Bachelor's degree: 180 credits

Master's degree: 120 credits

Licentiate of Medicine: 360 credits

Licentiate of Dentistry: 300 credits (decree 794/2004) or 330 credits (decree 351/2011)

On average 1 600 hours of student work is required to achieve 60 credits annually. 1 Finnish credit equals 1 ECTS credit.

Grades used in assessment of studies are pass/failed or numeric values: 5 (excellent; ECTS A), 4 (very good; ECTS B), 3 (good; ECTS C), 2 (satisfactory; ECTS D), 1 (sufficient; ECTS E), 0 failed.

In addition to numeric values, grades used in assessment of the Master's Thesis can also be: L = laudatur (outstanding; ECTS A), E = eximia cum laude approbatur (excellent; ECTS B), M = magna cum laude approbatur (very good; ECTS B), C = cum laude approbatur (good; ECTS C), N = non sine laude approbatur (fairly good; ECTS C), B = lubenter approbatur (satisfactory; ECTS D), A = approbatur (pass; ECTS E). Grades used in assessment of the Doctoral Thesis and Licentiate Thesis can also be excellent/pass/failed.

Sample



UNIVERSITY of OULU  
OULUN YLIOPISTO

## Diploma Supplement

### 8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

The Finnish education system consists of basic education, general and vocational upper secondary education, higher education and adult education. The basic education consists of a nine-year compulsory school for all children from 7 to 16 years of age.

Post-compulsory education is given by general upper secondary schools and vocational institutions. The general upper secondary school provides a three-year general education curriculum, at the end of which the pupil takes the national Matriculation examination (ylioppilastutkinto/studentexamen). Vocational institutions provide three-year programmes, which lead to upper secondary vocational qualifications (ammattillinen perustutkinto/yrkesinriktad grundexamen).

General eligibility for higher education is given by the Matriculation examination and the upper secondary vocational qualification. These qualifications require at least 12 years of schooling. Equivalent foreign qualifications also give general eligibility for higher education.

The Finnish higher education system comprises universities (yliopisto/universitet) and polytechnics (ammattikorkeakoulu, AMK/ yrkeshögskola, YH). All universities engage in both education and research and have the right to award doctorates. The polytechnics are multi-field institutions of professional higher education. Polytechnics engage in applied research and development. The polytechnics use the terms polytechnic or university of applied sciences when referring to themselves. This higher education system description uses the term polytechnic.

First and second cycle higher education studies are measured in credits (opintopiste/studiepoäng). Study courses are quantified according to the work load required. One year of studies is equivalent to 1600 hours of student work on average and is defined as 60 credits. The credit system complies with the European Credit Transfer and Accumulation System (ECTS).

#### 8.1. University degrees

The Government Decree on University Degrees (794/2004) defines the objectives, extent and overall structure of degrees. The universities decide on the detailed contents and structure of the degrees they award. They also decide on their curricula and forms of instruction.

##### 8.1.1. First-cycle university degree

The first-cycle university degree consists of at least 180 credits (three years of full-time study). The degree is called kandidaatti/kandidat in all fields of study except Law (oikeusnotaari/rättsnotarie) and Pharmacy (farmaseutti/farmaceut). The determined English translation for all these degrees is Bachelor's degree, the most common degrees being the Bachelor of Arts or Bachelor of Science.

Studies leading to the degree provide the student with: (1) knowledge of the fundamentals of the major and minor subjects or corresponding study entities or studies included in the degree programme and the prerequisites for following developments in the field; (2) knowledge and skills needed for scientific thinking and the use of scientific methods or knowledge and skills needed for artistic work; (3) knowledge and skills needed for studies leading to a higher university degree and for continuous learning; (4) a capacity for applying the acquired knowledge and skills to work; and (5) adequate language and communication skills.

Studies leading to the degree may include: basic and intermediate studies; language and communication studies; interdisciplinary programmes; other studies and work practice for professional development. The degree includes a Bachelor's thesis (6–10 credits).

##### 8.1.2. Second-cycle university degree

The second-cycle university degree consists of at least 120 credits (two years of full-time study). The extent of studies required for a programme leading to the second cycle university degree which is geared towards foreign students is a minimum of 90 credits. The degree is usually called maisteri/magister. Other second-cycle degree titles are diplomi-insinööri/ diplomingenjör (Technology), proviisori/provisor (Pharmacy) and arkkitehti/arkitekt (Architecture). The determined English translation for all these degrees is Master's degree, the most common degrees being the Master of Arts or Master of Science. The second-cycle university degree title in the fields of Medicine, Veterinary Medicine and Dentistry is lisensiaatti/licentiat, the English title being Licentiate. The admission requirement for the second-cycle university degree is a first-cycle degree. In the fields of Medicine and Dentistry the university may arrange the education leading to the second-cycle university degree without including a first-cycle university degree in the education. In Medicine the degree consists of 360 credits (six years of full-time study) and in Dentistry the degree consists of 300 credits (five years of full-time study).

Studies leading to the second-cycle university degree provide the student with: (1) good overall knowledge of the major subject or a corresponding entity and conversance with the fundamentals of the minor subject or good knowledge of the advanced studies included in the degree programme; (2) knowledge and skills needed to apply scientific knowledge and scientific methods or knowledge and skills needed for independent and demanding artistic work; (3) knowledge and skills needed for independently operating as an expert and developer of the field; (4) knowledge and skills needed for scientific or artistic post-graduate education; and (5) good language and communication skills.

The studies leading to the second-cycle university degree may include: basic and intermediate studies and advanced studies; language and communication studies; interdisciplinary study programmes; other studies; and internship improving expertise. The degree includes a Master's thesis (20–40 credits).

## 8.2. Doctoral degrees

Students can apply for doctoral studies after the completion of a relevant second-cycle degree. The aim of doctoral studies is to provide student with an in-depth knowledge of their field of research and capabilities to produce novel scientific knowledge independently.

A pre-doctoral degree of *lisensiaatti/licentiat* (Licentiate) may be taken before the Doctor's degree and in general it takes two years of full-time study to complete.

The Doctor's degree takes approximately four years to complete after the second-cycle degree or two further years following the pre-doctoral degree. A student who has been admitted to complete the Doctor's degree must complete a given amount of studies, show independent and critical thinking in the field of research and write a Doctor's dissertation and defend it in public.

## 8.3. Polytechnic degrees

The government decree on polytechnics (352/2003 including amendments) defines the objectives, extent and overall structure of polytechnic degrees. The Ministry of Education confirms the degree programmes of polytechnics, and within the framework of these regulations, the polytechnics decide on the content and structure of their degrees in more detail. The polytechnics also decide on their annual curricula and forms of instruction.

### 8.3.1. First-cycle polytechnic degrees

The first-cycle polytechnic degree consists of 180, 210 or 240 credits (three to four years of full-time study) depending on the field of study. For specific reasons, the Ministry of Education may confirm the scope of the degree to exceed 240 credits. The first-cycle polytechnic degree is called *ammattikorkeakoulututkinto/yrkeshögskoleexamen*. The determined English translation for the degree is Bachelor's degree. The degree titles indicate the field of study, e.g. Bachelor of Engineering or Bachelor of Health Care.

Studies leading to the degree provide the student with (1) broad overall knowledge and skills with relevant theoretical background for working as expert of the field; (2) knowledge and skills needed for following and advancing developments in the field; (3) knowledge and skills needed for continuous learning; (4) adequate language and communication skills; and (5) knowledge and skills required in the field internationally.

The first-cycle polytechnic degree comprises basic and professional studies, elective studies, a practical training period and a Bachelor's thesis or a final project.

### 8.3.2. The second-cycle polytechnic degrees

The second-cycle polytechnic degree consists of 60 or 90 credits (a year or a year and a half of full-time study). The degree is called *ylempi ammattikorkeakoulututkinto/högre yrkeshögskoleexamen*. The determined English translation for the second-cycle polytechnic degree is Master's degree. The degree titles indicate the field of study, e.g. Master of Culture and Arts or Master of Business Administration. Eligibility for second-cycle polytechnic degrees is given by a relevant first-cycle degree with at least three years of relevant work or artistic experience.

Studies leading to the degree provide the student with (1) broad and advanced knowledge and skills for developing the professional field as well as the theoretical skills for working in demanding expert and leadership positions in the field; (2) profound understanding of the field, its relation to work life and society at large as well as the knowledge and skills needed for following and analysing both theoretical and professional developments in the field; (3) capacity for life-long learning and continuous development of one's own expertise (4) good language and communication skills required in work life; and (5) knowledge and skills needed to function and communicate in the field internationally.

The second-cycle polytechnic degree comprises advanced professional studies, elective studies and a final thesis or a final project.