

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the 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 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):
- 1.2 Given name(s):
- 1.3 Date of birth: 1987-06-16
- 1.4 National identification:

2 Information identifying the qualification

- 2.1 Name of qualification and (if applicable) title conferred (in original language):
Bachelor i Ingeniørfag
Study programme: Bachelor in Electrical and Electronics Engineering
- 2.2 Main field(s) of study for the qualification:
Mechatronics
Communications and Digital Signal Processing
Control Systems
Systems Engineering
Instrumentation and Control
Manufacturing Technology
- 2.3 Name and status of awarding institution (in original language):
Høgskolen i Buskerud
State University College with recognised higher education study programmes receiving state support
- 2.4 Name and status of institution administering studies (in original language):
Høgskolen i Buskerud
State University College with recognised higher education study programmes receiving state support
- 2.5 Language(s) of instruction/examination:
Norwegian

3 Information on the level of the qualification

- 3.1 Level of qualification:
Bachelor's degree
- 3.2 Official length of the programme:
3 years / 180 ECTS credits.
- 3.3 Access requirements:
General matriculation standard (see ch. 8, Admission requirements for higher education) with special requirements in mathematics and physics.

4 Information on the contents and results gained

- 4.1 Mode of study:
Full-time.

Programme requirements:

The three year programme consists of 180 ECTS credits, of which 150 ECTS credits are awarded for compulsory courses and 30 ECTS credits for optional courses.

The first year of the Bachelor programme in Electrical and Electronics Engineering consists of foundation courses. In the second year the students can choose between three programme options: "Control Engineering", "Mechatronics" or "Audio Engineering".

Control Engineering:

The aim of Control Engineering is to equip the candidate to work with analysis and control of linear and nonlinear systems of diverse nature, such as dynamic positioning of ships, aircraft control systems, automotive control systems, surveillance and monitoring.

Mechatronics:

The programme option in Mechatronics make the candidate capable of analysing, designing and deploying mechatronical systems, that is mechanical and electronics systems, such as robotics.

Audio Engineering:

The Audio Engineering programme option intend to equip the candidate for the task of designing and developing modern audio systems, in e.g. broadcasting, Hi-Fi, studio, PA and automotive environments.

The third year of the Bachelor programme is completed by a 20 ECTS credits project.

4.3

Programme details:

See enclosed ECTS-transcript.

4.4

Grading scheme and, if available, grade distribution guidance:

Grading scale: The grading scale is from A (highest) to F (lowest). E is the minimum pass grade. A pass/fail mark is given for some examinations. One year full time study is equivalent to 60 ECTS credits.

4.5

Overall classification of the qualification (in original language):

Not applicable.

5**Information on the function of the qualification**

5.1

Access to further study:

The Bachelor programme constitutes the basis for further studies at Master level.

5.2

Professional status:

Engineer.

6**Additional information**

6.1

Additional information:

None

6.2

Further information sources:

Buskerud University College: www.hibu.no.

The Norwegian Agency for Quality Assurance in Education (NOKUT): www.nokut.no

7**Certification of the supplement**

7.1

Date:

11 May 2011

Date of original qualification: 20 June 2010

7.2

Signature:


Anne-Marie Øverland

Adviser

7.3

Capacity:

7.4

Official stamp or seal:

8 Information on the national higher education system

Higher education in Norway

All public and private higher education in Norway is subject to Act No. 15 of 1 April 2005 relating to Universities and University Colleges.

Higher education institutions comprise of universities, specialized university institutions, university colleges, and various private higher education institutions with recognised study programmes, www.nokut.no/Accredited-Institutions. Approximately 90% of the students in Norway attend state institutions.

Norway introduced bachelor's, master's and PhD degrees in 2002. Regulations covering these degrees, professional qualifications/titles awarded by the institutions and prescribed length of study, are codified in Royal Decree number 1574 of 16 December 2005 (www.lovdatabank.no/cgi-wif/ldes?ltdoc=/for/ff-20100806-1148.html).

Accreditation and evaluation

All institutions of higher education are subject to the authority of the Ministry of Education and Research. The Norwegian Agency for Quality Assurance in Education (NOKUT), an independent national agency for the accreditation and evaluation of higher education, is responsible for assessing the quality of programmes and institutions. The agency has accreditation powers for all higher education in Norway.

Admission requirements for higher education

The minimum requirement for admission is the successful completion of Norwegian upper secondary education (13 years of schooling, extended from 12 years from 1997). Upon graduation pupils are presented with the Upper Secondary School Leaving Certificate. Alternatively, admission may be gained by means of other qualifications recognised as being equivalent to the general matriculation standard. Some fields of study have additional entrance requirements.

Degrees and qualifications

The "Høgskolekandidat" degree is obtained after two years of study (120 "studiepoeng"/ECTS). Holders of this degree may continue their studies and obtain a bachelor's degree. This degree is offered at state university colleges and a few other institutions.

The Bachelor's degree is awarded by all state universities, specialized university institutions, university colleges and a good number of other higher education institutions, both private and public. The nominal length of studies required to obtain this degree is three years of study (180 "studiepoeng"/ECTS).

The Master's degree is awarded by state universities, specialized university institutions, several university colleges and some private institutions. The degree is normally obtained after two years of study (120 "studiepoeng"/ECTS), following the completion of a bachelor's degree. An important part of this degree is the independent work/thesis, earning between 30 and 60 "studiepoeng"/ECTS credits.

In the fields of medicine, psychology, veterinary science and theology, professionally oriented degrees/qualifications are awarded after completing six years of studies.

The Doctoral degree, Philosophiae Doctor PhD, is awarded after three years of study (180 "studiepoeng"/ECTS), following the completion of a master's degree or a six-year professionally oriented degree/qualification. Doctoral programmes are offered by all universities and specialized university institutions, by some state university colleges and also by a few private institutions.

There are a few exceptions to this degree structure, listed in the diagram below.

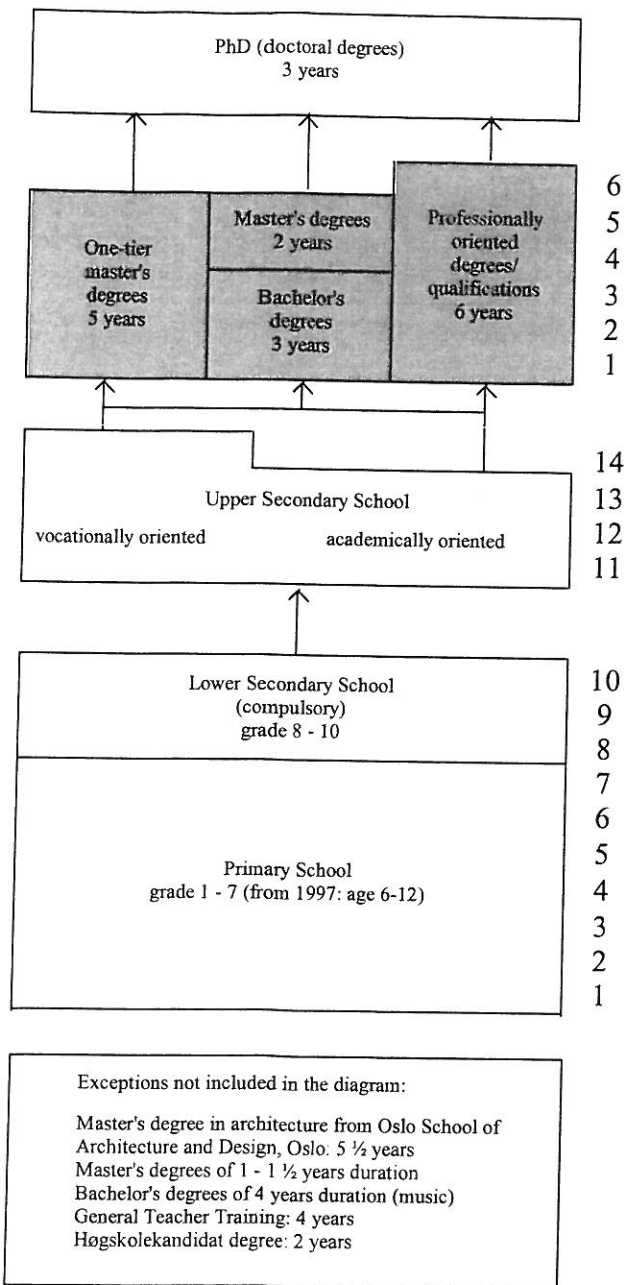
Credit system and grading

The academic year normally runs from mid-August to mid-June and lasts for 10 months. Courses are measured in "studiepoeng", considered equivalent to the European Credit Transfer System standard (ECTS credits). The full-time workload for one academic year is 60 "studiepoeng"/ECTS credits.

Grades for undergraduate and postgraduate examinations are awarded according to a graded scale from A (highest) to F (lowest), with E as the minimum pass grade. A pass/fail mark is given for some examinations.

- A Excellent - An excellent performance, clearly outstanding. The candidate demonstrates excellent judgement and a high degree of independent thinking.
- B Very good - A very good performance. The candidate demonstrates sound judgement and a very good degree of independent thinking.
- C Good - A good performance in most areas. The candidate demonstrates a reasonable degree of judgement and independent thinking in the most important areas.
- D Satisfactory - A satisfactory performance, but with significant shortcomings. The candidate demonstrates a limited degree of judgement and independent thinking.
- E Sufficient - A performance that meets the minimum criteria, but no more. The candidate demonstrates a very limited degree of judgement and independent thinking.
- F Fail - A performance that does not meet the minimum academic criteria. The candidate demonstrates an absence of both judgement and independent thinking.

The structure of the Norwegian Educational System and Degrees



Version: January 2011

More information: <http://www.nokut.no>



HØGSKOLEN
i Buskerud

Transcript of Records

Name:
Degree: Bachelor in Engineering
Study programme: Bachelor in Electrical and Electronics Engineering
Programme option: Mechatronics

Buskerud University College

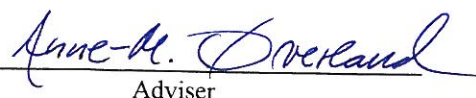
Date of birth: 1987-06-16

Received: 2010-06-20

| Course | Semester | ECTS-credits | Grade | |
|--------------------------------|--|--------------|-------|--------|
| DFGP1101 | Introduction to Computer Science | 2007 autumn | 10 | B |
| RFFY1102 | Physics | 2007 autumn | 10 | B |
| RFMA1100 | Mathematics 1 | 2007 autumn | 10 | A |
| DFPC1202 | Introduction to Programming in C/C++ | 2008 spring | 5 | A |
| DFPR1203 | Project | 2008 spring | 5 | Passed |
| EFET1204 | Electric circuits and digital electronics | 2008 spring | 5 | B |
| RFMS1201 | Mathematics 2 | 2008 spring | 15 | A |
| EMAR2101 | Control Systems 1 | 2008 autumn | 10 | A |
| RFKJ2103 | Chemistry | 2008 autumn | 5 | A |
| SEMS2122 | Systems Engineering 1 | 2008 autumn | 5 | A |
| DMIL2205 | Environment ecology | 2009 spring | 5 | Passed |
| EAAE2102 | Analogue Electronics | 2009 spring | 10 | C |
| EADK2203 | Communications and digital signal processing | 2009 spring | 10 | C |
| EREG2204 | Control Systems 2 | 2009 spring | 10 | C |
| SEMS2123 | Systems Engineering 2 | 2009 spring | 5 | B |
| EMIS3104 | Instrumentation and control | 2009 autumn | 10 | Passed |
| RSEM5001 | Mathematics 3 | 2009 autumn | 6 | A |
| EMMR3202 | Mechatronics | 2010 spring | 10 | B |
| MPTT3107 | Manufacturing Technology | 2010 spring | 10 | C |
| RSEB5004 | Fuelcell Technology | 2010 spring | 5 | B |
| SFHO3200 | Main project | 2010 spring | 20 | B |
| <i>Cross Shooting Detector</i> | | | | |

Total: 181,0

11 May 2011


Adviser

The grading scale is from A (highest) to F (lowest). E is the minimum pass grade. The mark Passed is given for some examinations.