



## **STUDY POSSIBILITIES IN ENGLISH 2008-2009**

### **School of Engineering, Oulu UAS**

*N.B. Subject to small changes, document last updated on 5.6.2008*

**This document includes an overview of**

**- undergraduate courses and study possibilities (Bachelor's level),**  
**- professional specialisation studies** (open to undergraduate students from partner institutions) **and**

**- postgraduate degree programmes (Master's level)**

**that are offered in English at the School of Engineering 2008-2009.**

**Please plan your studies according to this document. Further information can be obtained by following the links provided in this document. If you have any questions, feel free to contact the Coordinators of International Relations at the School of Engineering:**

**Mr Matti Alila**

matti.alila[at]oamk.fi

+358 50 568 9358

**Mr Bastian Fähnrich**

bastian.fahnrich[at]oamk.fi

+358 50 31 749 31

**\* Students are required to have a suitable study background and a minimum of approx. 2 years' studies at their home university before entering the courses or project works at an undergraduate level.**

**\* The implementation of each course depends on the amount of interested students.**

**\* Students can choose studies from different fields, but some of the courses may overlap in the schedule.**

**\* The applications for autumn 2008 studies should be submitted by 31.5.2008. Application deadline for spring 2009 studies is 31.10.2008.**

**\* Application procedures and entry requirements for professional specialisation studies (Business Engineering) and Master's degree programmes (Industrial Management and Information Technology) differ from the ones of undergraduate studies etc. For more details, see next pages and check the web site of the School of Engineering.**



## **BUILDING SERVICES/ HVAC**

### **AUTUMN 2008**

[T670504](#) Refrigeration Technology, 4 ECTS cr (N.B. Course is already full!)

### **SPRING 2009**

No courses available.

## **LABORATORY SCIENCES**

### **AUTUMN 2008**

**Project Work** (undergraduate)

[T470420](#) Project Work (Biotechnology or Laboratory Analytics), 20 ECTS cr

### **SPRING 2009**

**Project Work** (undergraduate)

[T470420](#) Project Work (Biotechnology or Laboratory Analytics), 20 ECTS cr



## **INFORMATION TECHNOLOGY, TELECOMMUNICATIONS & CONTROL ENGINEERING**

### **AUTUMN 2008**

**T000315** Project Work 15 ECTS cr, in the following areas (undergraduate, to be separately agreed on):

- Sensor Networks
- Wireless Instrumentation
- RFID, NFC
- Virtual Technologies

**Master's Degree Programme in Information Technology (DPIT)** (postgraduate, separate application!)

Homepage: [http://www.oamk.fi/english/exchange\\_opportunities/ects/curricula/master/](http://www.oamk.fi/english/exchange_opportunities/ects/curricula/master/)  
(ECTS guide 2008-2009 is available on the main page of Oulu UAS, <http://www.oamk.fi/english/ects/>! Please note that other degree programmes listed in the ECTS guide are taught in Finnish, even though information is provided in English!)

Target group & brief description: Aimed at **graduates** in the field of engineering, having **at least three (3) years' work experience**. Programme consists of studies in research and development methods, innovation activities, entrepreneurship, wireless communications and related software technology. In addition, studies include a Master's thesis, which will be carried out as a research and development project in close relation to working life.

Duration: 1-2 years, Sept. 08-, orientation programme for incoming students 4.-6.9.2008

Scope: 60 ECTS cr

Language of instruction: English

Curriculum: Homepage, ECTS guide or

[http://www.oamk.fi/english/exchange\\_opportunities/ects/curricula/master/?page=ops&opas=2008-2009&kieliv=en&code=2085](http://www.oamk.fi/english/exchange_opportunities/ects/curricula/master/?page=ops&opas=2008-2009&kieliv=en&code=2085)

Application period: 14.4.-2.5.2008.

Incoming students have to **apply online** (see links below, or links via homepages). In addition, applicants have to send a 1-2 pages long plan for their Master's thesis in English to Oulu University of Applied Sciences, Admissions Office, within the application deadline. Information about other documents (e.g. regarding language proficiency, work experience) that are required to apply for DPIM or DPIT, and which have to be sent as well to the Admissions Office, can be obtained via the following links:

Online application for DPIT: [http://www.oamk.fi/hakijalle/aikuiskoulutus/ylemmat/?ak\\_osio=kuvaus&lv=s2008&id=114](http://www.oamk.fi/hakijalle/aikuiskoulutus/ylemmat/?ak_osio=kuvaus&lv=s2008&id=114)

### **SPRING 2009**



**T000315** Project Work 15 ECTS cr, in the following areas (undergraduate, to be separately agreed on):

- Sensor Networks
- Wireless Instrumentation
- RFID, NFC
- Virtual Technologies



## **MECHANICAL AND PRODUCTION ENGINEERING**

### **AUTUMN 2008**

#### **Courses** (undergraduate)

<a href="#">T324203</a>	Maintenance Engineering 1, 3 ECTS cr
<a href="#">T310303</a>	CATIA/3D-CAD, 3 ECTS cr
<a href="#">TL2232</a>	Solidworks/ Optional CAD, 3 ECTS cr

#### **Project Work** (undergraduate, to be separately agreed on):

<a href="#">T000303</a>	Project Work, 3 ECTS cr
<a href="#">T000305</a>	Project Work, 5 ECTS cr
<a href="#">T000310</a>	Project Work, 10 ECTS cr
<a href="#">T000320</a>	Project Work, 20 ECTS cr
<a href="#">T000330</a>	Project Work, 30 ECTS cr

#### **Professional Specialisation Studies**

(postgraduate, open to undergraduate and postgraduate students from partner institutions. Separate application!)

#### **Business Engineering (BE)**, 30 ECTS cr.

Homepage: <http://www.oamk.fi/tekniikka/business>

Target group: Aimed at **advanced students** with a minimum of two (2) years' study background from different fields of **engineering**. Especially, **exchange students** from partner institutions are welcome!

Duration: 12.9.2008-14.2.2009, orientation programme for incoming students  
4.9.-6.9.2008

Scope: 30 ECTS cr

Language of instruction: English

Curriculum: Homepage, ECTS guide or

[http://www.oamk.fi/english/exchange\\_opportunities/ects/curricula/pss/?page=ops&opas=2008-2009&kieliv=en&code=510](http://www.oamk.fi/english/exchange_opportunities/ects/curricula/pss/?page=ops&opas=2008-2009&kieliv=en&code=510)

Application to BE: Prolonged 23.5.-28.8.2008

Incoming students have to **apply online** (see links below, or links via homepages), in addition to the usual Erasmus application. The online application form for BE must be filled in by the incoming student. In addition, the international coordinator of the sending institution has to sign and send a paper document (**template**, see below) certifying the study attainments and English language proficiency of the applying student (N.B.! This applies only to applicants from partner institutions! Other international students have to prove language proficiency, e.g. by means of a language test). The online application forms include a link to a document **template** (see below) regarding the certification. The document should be sent to Oulu University of Applied Sciences, Admissions Office, along with other documents (e.g. regarding language



proficiency, work experience) required to apply for BE. Further information can be obtained via the following links:

Online application for BE: [http://www.oamk.fi/hakijalle/aikuiskoulutus/aeo/?ak\\_osio=kuvaus&lv=s2008&id=119](http://www.oamk.fi/hakijalle/aikuiskoulutus/aeo/?ak_osio=kuvaus&lv=s2008&id=119)

Template for BE (only for applicants from partner institutions!):  
[http://www.oamk.fi/tietohallinto/doc/BE\\_lisalomake\\_S2008.doc](http://www.oamk.fi/tietohallinto/doc/BE_lisalomake_S2008.doc)



## **MECHANICAL AND PRODUCTION ENGINEERING (continued)**

**Master's Degree Programme in Industrial Management (DPIM)** (postgraduate, separate application!)

Homepage: [http://www.oamk.fi/english/exchange\\_opportunities/ects/curricula/master/](http://www.oamk.fi/english/exchange_opportunities/ects/curricula/master/) or ECTS guide 2008-2009 is available on the main page of Oulu UAS, <http://www.oamk.fi/english/ects/>! Please note that other degree programmes listed in the ECTS guide are taught in Finnish, even though information is provided in English!

Target group & brief description: Aimed at **graduates** in the field of engineering, having **at least three (3) years' work experience**. Programme consists of studies in research and development methods, management, business operations and mechanical engineering technologies. In addition, studies include a Master's thesis, which will be carried out as a research and development project in close relation to working life.

Duration: 1-2 years, Sept. 08-, orientation programme for incoming students 4.-6.9.2008

Scope: 60 ECTS cr

Language of instruction: English

Curriculum: Homepage, ECTS guide or

[http://www.oamk.fi/english/exchange\\_opportunities/ects/curricula/master/?page=ops&opas=2008-2009&kieliv=en&code=2071](http://www.oamk.fi/english/exchange_opportunities/ects/curricula/master/?page=ops&opas=2008-2009&kieliv=en&code=2071)

Application to DPIM: Prolonged 26.5.-28.8.2008.

Incoming students have to **apply online** (see links below, or links via homepages). In addition, applicants have to send a 1-2 pages long plan for their Master's thesis in English to Oulu University of Applied Sciences, Admissions Office, within the application deadline. Information about other documents (e.g. regarding language proficiency, work experience) that are required to apply for DPIM, and which have to be sent as well to the Admissions Office, can be obtained via the following links:

Online application for DPIM: [http://www.oamk.fi/hakijalle/aikuiskoulutus/ylemmat/?ak\\_osio=kuvau&lv=s2008&id=123](http://www.oamk.fi/hakijalle/aikuiskoulutus/ylemmat/?ak_osio=kuvau&lv=s2008&id=123)

### **SPRING 2009**

**Courses** (undergraduate)

[T340503](#) Business Oriented Product Development, 3 ECTS cr

**Project Work** (undergraduate, to be separately agreed on):

[T000303](#) Project Work, 3 ECTS cr

[T000305](#) Project Work, 5 ECTS cr

[T000310](#) Project Work, 10 ECTS cr

[T000320](#) Project Work, 20 ECTS cr

[T000330](#) Project Work, 30 ECTS cr







## **CIVIL ENGINEERING**

**(N.B. The contact teaching needs a certain minimum number of students in order to be started, otherwise the studies will be tailored for the students including more independent study.)**

### **AUTUMN 2008**

#### **Courses and Project Work** (undergraduate)

<a href="#">T528105</a>	Construction Industry in Finland, 5 ECTS cr
<a href="#">T528205</a>	Building Modelling, 5 ECTS cr
<a href="#">T060104</a>	Physics, 4 ECTS cr
<a href="#">T535705</a>	Water and Environmental Management, 5 ECTS cr
<a href="#">T547403</a>	Cold Climate Construction, 3 ECTS, cr
<a href="#">TL4201</a>	Property and facility management in theory and in practice, 3 ECTS cr
<a href="#">T512903</a>	Wooden Structures 1, 3 ECTS cr
<a href="#">T512403</a>	Concrete Structures 1, 3 ECTS cr
<a href="#">T530304</a>	Basics of Road Construction and Transportation Engineering, 4 ECTS cr
<a href="#">T537403</a>	Project Work, 3-6 ECTS cr (to be separately agreed on)
<a href="#">T517103</a>	Optional Course of Structural Engineering (in the field of Geotechnics & Foundation): can be offered only in specific cases, tailored as multi-modal teaching and learning. To be separately agreed on. 3 ECTS cr

### **SPRING 2009**

#### **Courses and Project Work** (undergraduate)

<a href="#">T528105</a>	Construction Industry in Finland, 5 ECTS cr
<a href="#">T528205</a>	Building Modelling, 5 ECTS cr
<a href="#">T060104</a>	Physics, 4 ECTS cr
<a href="#">T535705</a>	Water and Environmental Management, 5 ECTS cr
<a href="#">T547403</a>	Cold Climate Construction, 3 ECTS cr
<a href="#">TL4201</a>	Property and facility management in theory and in practice, 3 ECTS cr
<a href="#">T512903</a>	Wooden Structures 1, 3 ECTS cr
<a href="#">T512403</a>	Concrete Structures 1, 3 ECTS cr
<a href="#">T530304</a>	Basics of Road Construction and Transportation Engineering, 4 ECTS cr
<a href="#">T537403</a>	Project Work, 3-6 ECTS cr (to be separately agreed on)
<a href="#">T517103</a>	Optional Course of Structural Engineering (in the field of Geotechnics & Foundation): can be offered only in specific cases, tailored as multi-modal teaching and learning. To be separately agreed on. 3 ECTS cr



## **ADDITIONAL COURSES**

(N.B. Suitable for all the study fields and available in autumn and spring, undergraduate and postgraduate)

- [T000203](#) Project Management, 3 ECTS cr
- [Y00022E](#) Finnish Survival Course, 3 ECTS cr
- [T030303](#) English Language and Intercultural Skills, 3 ECTS cr

English Language in Engineering (different levels, undergraduate and postgraduate):

- [T034104](#) English, 4 ECTS cr
- [T030103](#) English 1, 3 ECTS cr
- [T030203](#) English 2, 3 ECTS cr
- [T033003](#) Advanced Course in English, 3 ECTS cr

Possibility to try out so-called Tandem studies, that is, working together with a Finnish partner student in order to learn about the Finnish language and culture, and teach the Finnish student English/your native language and culture of your country of origin. For further information please turn to Bastian Fähnrich (see contact info on first page).

## **CIRCUMPOLAR STUDIES** (undergraduate and postgraduate)

**Oulu University of Applied Sciences is part of the University of Arctic cooperation, through which also exchange students may choose online courses offered by the University of Arctic network. More information at:**

<http://www.uarctic.org/singleArticle.aspx?m=468&amid=3009>

Application and registration for the courses are done via the School of Engineering, usually immediately upon arrival in Oulu.

## **AUTUMN 2008**

- [BCS 100](#): Introduction to the Circumpolar World, 6 ECTS cr
- [BCS 311](#): Land and Environments of the Circumpolar World I, 6 ECTS cr
- [BCS 321](#): Peoples and Cultures of the Circumpolar World I, 6 ECTS cr
- [BCS 331](#): Contemporary Issues of the Circumpolar World I, 6 ECTS cr

## **SPRING 2009**

- [BCS 100](#): Introduction to the Circumpolar World, 6 ECTS
- [BCS 312](#): Land and Environments of the Circumpolar World II, 6 ECTS
- [BCS 322](#): Peoples and Cultures of the Circumpolar World II, 6 ECTS
- [BCS 332](#): Contemporary Issues of the Circumpolar World II, 6 ECTS