Oulu UAS, School of Engineering
Exchange Programmes in Engineering
Academic Year 2014-2015

Last updated: 27 October 2014. Further updates possible at a later stage!

**This document provides an overview of exchange programmes in English and the application procedure
to Oulu UAS' School of Engineering, for the academic year 2014-2015:**

Autumn 2014 (September - December 2014)
N.B.! Studies in autumn begin with an orientation day on 28 and 29 August and last until 20 December 2014.

Spring 2015 (January - April / May 2015, depending on field and level of study)
N.B.! Studies in spring begin with an orientation day on 7 January 2015.

Study possibilities in English consist of exchange programmes, including courses and partly also project work opportunities:
http://u.oamk.fi/engineeringprogrammes

If you have any questions regarding studies or the application procedure for exchange students, feel free to contact:

Mr Bastian Fähnrich, bastian.fahnrich@oamk.fi, +358 50 31 749 31 **(International Coordinator, Incoming Students)**

Exchange Programmes

You may choose and apply to exchange programmes in engineering. Please note that studies can be chosen only from one exchange programme
option and as indicated, for otherwise there will be timetable conflicts etc.!

• **Information and Communication Technology (ICT)**
Includes studies in Software Engineering / Internet Technologies N.B.! You may choose studies on ICT-Bachelor-level only from one year (second or third year)
• **Electrical & Automation Engineering (EAE)**
• **Mechanical Engineering (MEC)**
• **Civil Engineering (CIV)**
• **Energy Technology (ENE)**

Application Procedure

(1) Before applying, check whether you meet the following requirements:
• Suitable study background and a minimum of 1 1/2 years' studies at your home university.
• Sufficient English language skills, at least B2 level according to the Common European Framework of Reference for Languages:
http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr

(2) Before applying, contact the international coordinator of your home university to get an approval for your study/practical training abroad period at
Oulu UAS.

(3) Before applying, ask your international coordinator of your home univeristy to send a nomination message by e-mail to the contact person
mentioned above. The message must include your full name, e-mail address and information for which academic year/term you have been nominated.

(4) Send your application during the application period! Applications received beyond the deadlines won't be accepted!
**The application period for exchange students in the autumn term and academic year is 1 April - 31 May,
and for the spring term 15 September - 31 October.**

Please note that you must submit your application completely online through Oulu UAS'
Exchange Student Application System (ESA), including all required information in the ESA text fields**:**
http://www.oamk.fi/english/exchange_opportunities/student_exchange/exchange_applications/

• **Personal & Home Institution Information**
• **Curriculum Vitae**
• **Cover Letter**
• **Learning Agreement**
• **Application for Accommodation**
• *Transcript of Records in English and based on ECTS (separately by e-mail, **only required for project work applicants**)*

(5) If you are applying for a project work, you <u>must</u> provide the following additional information by means of ESA and e-mail. Applications without the required additional information won't be processed! See also **http://u.oamk.fi/projectworkguidelines**

(5.1) Cover Letter (via ESA):
• **Personal background and motivation for a project work**
• **Academic/vocational education, i.e. level and field of current studies, e.g. 3-year Bachelor in Computer Sciences**
• **Previous work and internship experience**
• **Topic suggestions or given topics of project works in study fields at Oulu UAS' School of Engineering**
• **Interests related to the given or suggested project work topics and study field(s)**
• **Skills and level of knowledge related to the given or suggested project work topics and study field(s):**

N.B.! You must self-evaluate and rate your skills and level of knowledge according to the scheme mentioned below.
Please include this information also in your Curriculum Vitae, e.g. when you list Java skills/knowledge or something the like:

Basic – requires learning/teaching
Good – able to work after little learning
Fluent – able to work with instructions
Excellent – able to work independently

• Scope of the project work in ECTS credits, as indicated in the exchange programme option and wished by you
• Name and contact information (e-mail, phone number) of a supervising teacher in your home university

(5.2) Learning Agreement (via ESA):
• Scope of the project work in ECTS credits, e.g. 15 ECTS cr
• Code of the project work, for a 15 ECTS project work: T000315 (the last two digits refer to the workload in terms of ECTS cr)

(5.3) Transcript of Records (by e-mail):
• Transcript of Records in English. A transcript of records is a certified copy of your previous studies, including ECTS credits and grades. You must send the transcript of records by e-mail and scanned (as jpg/pdf/doc file) to the international coordinator of Oulu UAS' Kotkantie Campus within the application deadline.

(6) Your online application via ESA will be assessed by the international coordinator and academic staff of Oulu UAS' School of Engineering. If need be, they will contact you by e-mail about further administrative proceedings. For example, it may be necessary to submit also a **Transcript of Records** etc. by e-mail such **as in the case of workshops/project studies**.

(7) Admission decisions will be sent to applicants usually within two weeks after the application deadline (31 May / 31 October).
The international coordinator(s) will send you and other applicants the following admission documents:
• **Letter of Acceptance**
• **Learning Agreement**
• **Welcome Letter** (includes practical information)
N.B.! Accommodation information is given separately by Oulu UAS' International Services, and confirmation of the Otokylä Student Dormitory is sent directly to applicants, usually in July/December.

Department of Information & Communication Technology

Exchange Programme Information Technology (Bachelor, 2nd year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (2nd year)!

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T789503D	Statistical Methods and Optimization	3	Not offered
T789803D	Vibrational Motion and Waves	3	Not offered
T740303D	Software Production	3	Not offered
T789206D	Usability Basics	6	Not offered
T789106D	User Interface Design	6	Not offered
T789306D	Animation	6	Not offered
T744803D	Device Technology of Computer	Not offered	3
T788806D	Software Design	Not offered	6
T789303D	Interactive Multimedia Programming	Not offered	3
T789406D	Software Development Project 2	Not offered	6
T789903D	Internet Protocols	Not offered	3
T791003D	Information Security Engineering	Not offered	3
T790003D	PHP Frameworks	Not offered	3
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
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Department of Information & Communication Technology

Exchange Programme Information Technology (Bachelor, 3rd year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (3rd year)!

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T788803D	Mobile Internet Programming	3	Not offered
T789203D	Usability Testing	3	Not offered
T790203D	Entrepreneurship	3	Not offered
T790303D	Analysing Business Opportunities	3	Not offered
T790403D	Business Implementation	3	Not offered
T790006D	Java EE Server Programming	6	Not offered
T790206D	ASP.NET Applications (N.B.! Starts in autumn and continues in spring, and thus available only for students coming for the entire academic year!)	6	Goes on
T000315	Project Work (N.B.! When applying, notify Oulu UAS international coordinator and send Transcript of Records by -email. Available in the areas of software development, internet applications, mobile devices)	15	15
T746110D	Company-Oriented Product Development Project 1 (N.B.! Carried out in companies! Only available for students coming already in autumn and staying for the entire academic year. When applying, notify Oulu UAS coordinator and send Transcript of Records by e-mail)	Not offered	10
T790406D	Planning of Internet-based Business Project	Not offered	6
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
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Department of Electrical and Automation Engineering

Exchange Programme Electrical & Automation Engineering (Bachelor, 3rd)

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T115103	Laboratory Exercises in the Field of the Automation Information Technology	3	Not offered
T135106	Process Automation, Laboratory	6	Not offered
T615105	Building Automation Project (*)	5	5
T000305	Project Work (*)	5	5
T000303	Project Work (*)	3	3
T000315	Project Work (*)	15	3
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
		60	**31**

(*) N.B.! When applying, notify Oulu UAS international coordinator and send Transcript of Records by -email.
Can be chosen only in one term!

Department of Mechanical Engineering

Exchange Programme Mechanical Engineering (Bachelor, 2nd/3rd year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (2nd/3rd year)!

Code	Courses	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T310503	Autodesk Inventor (Optional CAD)	3	Not offered
T310903	Plant Simulation	3	Not offered
T312803	Production Planning	3	Not offered
T318603	Prototype Engineering (Rapid Prototyping)	3	Not offered
T000305	Project Work (*)	5	5
T000310	Project Work (*)	10	10
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competencies	3	3
T090705	Basics of Product Development	5	Not offered
T790203D	Entrepreneurship	3	Not offered
		50	**30**

(*) N.B.! Can be also extended up to 15 ECTS cr as one project, if interests and resources match. When applying, notify Oulu UAS international coordinator and send Transcript of Records by -email. Available in the field of mechanical design, machine automation, automotive engineering, production development or simulation. Can be chosen only in one term!

Department of Civil Engineering

Exchange Programme Civil Engineering (Bachelor, 2nd/3rd/4th year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (2nd/3rd/4th year)!

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T528405	Finnish Construction Industry	5	5
T528603	Property and Facility Management in Theory and Practice	3	3
T535705	Water and Environmental Management	5	5
T529203	Infrastructure Construction Engineering	3	3
T528303	Basic Course in Geotechnics and Foundation Engineering	3	Not offered
T530303	Network Water Distribution System Simulation and Construction (if continued in spring then 6 ECTS cr)	3	Not offered
T528503	Basics of Road Construction and Transportation Engineering	Not offered	3
T528803	Concrete Structures 1	Not offered	3
T528903	Wooden Structures 1	Not offered	3
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
		45	**40**

Department of Energy Technology

Exchange Programme Energy Technology (Bachelor, 3rd/4th year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (3rd/4th year)!

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T620303	Measurements in Heating, Plumbing and Air Conditioning Plants 1 (2nd/3rd/4th year)	3	Not offered
T620403	Measurements in Heating, Plumbing and Air Conditioning Plants 2 (2nd/3rd/4th year)	3	Not offered
T630009	Energy Technology Project (3rd/4th year) (*)	9	9
T528405	Finnish Construction Industry	5	5
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
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(*) N.B.! When applying, notify Oulu UAS international coordinator and send Transcript of Records by -email.
Can be chosen only in one term!

Exchange Programme Laboratory Sciences (Bachelor, 3rd year)

N.B.! Courses may only be chosen from this exchange programme and at this Bachelor level (3rd year)!

Code	Course	Autumn 2014 ECTS cr	Spring 2015 ECTS cr
T000320	Project Work (in the area of biotechnology or laboratory analytics) (*)	20	20
T622304	Environmental Microbiology (2nd/3rd/4th year)	Not offered	4
Courses also available, if timetables match:			
T030203	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
BCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T090705	Basics of Product Development	5	Not offered
T000103	Intercultural Competencies	3	3
		43	**39**

(*) N.B.! When applying, notify Oulu UAS international coordinator and send Transcript of Records by -email.
Can be chosen only in one term!