

Oulu University of Applied Sciences

Exchange Programmes in ICT & Engineering (Kotkantie Campus)

Academic Year 2016-2017

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This document provides an overview of exchange programmes in English and the application procedure to Oulu UAS' School of Engineering and Natural Resources, for the academic year 2016-2017:

Autumn 2016 (Late August - December 2016)

N.B.! Studies in autumn begin with a mandatory orientation day on 25 August and last until approx. 23 December 2016. Arrival 22 -24 August 2016.

Spring 2017 (January - May 2017)

N.B.! Studies in spring begin with a mandatory orientation day on 4 January 2017 and last until 5 May 2017.

Some courses may end earlier depending on timetables! Arrival 2 - 3 January 2017.

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 Mobility)

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, Medical Engineering. N.B.! You may choose studies only from one exchange programme!

• Electrical & Automation Engineering (EAE)

• Mechanical Engineering (MEC)

• Civil Engineering (CIV)

• Energy Technology (incl. Building Services and Laboratory Sciences) (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 and attachments:

<http://u.oamk.fi/exchangeapplication>

- Personal & Home Institution Information (via ESA text field)
- Curriculum Vitae (including a valid phone number or skype ID etc.) (via ESA attachment)
- Cover Letter (via ESA attachment)
- Learning Agreement (via ESA attachment)
- Transcript of Records in English and ECTS (via ESA attachment)
- Application for Accommodation (via ESA text field)
- Additional Information (only for projects, see (5) for more details) (via ESA attachment / text field etc.)

(5) If you are applying for a project work, you **must** 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/engineeringprojectworkguidelines>

(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 (via ESA):

- Transcript of Records in English. A transcript of records is a certified copy of your previous studies, including ECTS credits and grades.

(6) Your online application via ESA will be assessed by the international coordinator and academic staff of Oulu UAS' Kotkantie Campus. If need be, they will contact you by e-mail about further administrative proceedings.

(7) Admission decisions will be sent to applicants usually within three to four 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 dormitory is sent directly to applicants, usually in July/December.

Information & Communication Technology

Exchange Programme Information Technology (Bachelor, 2nd year)

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T789503D	Statistical Methods and Optimization	3	Not offered
T789803D	Vibrational Motion and Waves	3	Not offered
T789206D	Usability Basics	6	Not offered
T789106D	User Interface Design	6	Not offered
T789306D	Animation	3	Not offered
T789903D	Internet Protocols	3	Not offered
T790203D	Entrepreneurship	3	Not offered
T740303D	Software Production	Not offered	3
5N00BB95	Software Design	Not offered	3
T788302D	Mobile Internet Programming	Not offered	3
T789303D	Interactive Multimedia Programming	Not offered	3
T789406D	Software Development Project 2	Not offered	6
T791003D	Information Security Engineering	Not offered	3
T790003D	PHP Frameworks	Not offered	3
T789203D	Usability Testing	Not offered	3
T790403D	Business Implementation	Not offered	3
Courses also available, if timetables match:			
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competences	3	3
		39	42

Information & Communication Technology

Exchange Programme Information Technology (Bachelor, 3rd year)

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T788803D	Mobile Internet Programming	3	Not offered
T790503D	Cloud Services	3	Not offered
T790206D	ASP.NET Applications	6	Not offered
T708104D	Project Studies 2 (Requirements C#, Game Programming with Unity, must be taken with PS3)	4	Not offered
T708205D	Project Studies 3 (Requirements C#, Game Programming with Unity, must be taken with PS2)	5	Not offered
T708306D	Project Studies 4	6	Not offered
Y00044E	Demola Project (* N.B.! Check information below!)	3 to 10	3 to 10
T790303D	Analysing Business Opportunities	Not offered	3
T790006D	Java EE Server Programming	Not offered	6
T790406D	Planning of Internet-based Business Project	Not offered	6
Courses also available, if timetables match:			
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competences	3	3
		39	30 (37)

- (*) Demola Project (<http://oulu.demola.fi>) is a business-driven demo project by which students learn project, teamwork and presentation skills and can contribute professionally in a multidisciplinary and multicultural team in English to the demo project process and outcome. The course timing and work involves a Demola application at the beginning of the term, then selection with possible interviews, kickoff meeting, demo project planning and implementation, and presentation and reporting at the end of the work period. Prerequisite for participation is being selected to a project team in Demola where students' skills (ICT, entrepreneurship etc.) are required and they will benefit from the whole process. If you wish to apply to this course, you must mention your reasons and interests as well as relevant skills in your ESA online application's Cover Letter and Curriculum Vitae. Please note that the ECTS cr scope depends on the workload during the demo project work. In case a student does not get selected to a Demola Project despite considerable efforts, the Department of ICT will make arrangements to offer a suitable project work, e.g. T000310 Project Work, 10 ECTS cr. When applying, follow the project work guidelines and application procedure!

Information & Communication Technology

Exchange Programme Information Technology

(Medical Engineering Module, Bachelor, 2nd year)

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T291006	Medical Devices	Not offered	6
T214003	User-interface Design and Usability	Not offered	3
T292003	Bioelectronics	Not offered	3
T756406	Medical Engineering Project	Not offered	6
T762806	Printed Electronics	Not offered	6
5N00BB91	Applied Physics and Mathematics	Not offered	3
YY00BH04	Entrepreneurship	Not offered	3
Courses also available, if timetables match:			
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competences	3	3
		12	42

(*) N.B.! When applying, follow the project work guidelines and application procedure!

Can be chosen only in one term!

Electrical and Automation Engineering

Exchange Programme Electrical & Automation Engineering (Bachelor, 3rd/ Autumn 2016 Spring 2017)

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T000315	Project Work (*)	15	15
Courses also available, if timetables match:			
XTELE03	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T000103	Intercultural Competences	3	3
		33	30

(*) N.B.! When applying, follow the project work guidelines and application procedure!
Can be chosen only in one term!

Mechanical Engineering

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

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Courses	ECTS cr	ECTS cr
T310503	Optional CAD (requires knowledge and skills in SolidWorks)	3	Not offered
T310903	Plant Simulation	3	Not offered
T312803	Production Planning	3	Not offered
T318603	Prototype Engineering	3	Not offered
5K00BL67	Introduction to Programming	3	Not offered
5K00BJ22	Basics of Logistics (no course description available at this moment)	3	Not offered
5Y00BH15	Engineering English	3	Not offered
T000305	Project Work (*)	5	5
T000310	Project Work (*)	10	10
YY00BH03	Introduction to Project Working	Not offered	3
5K00BL50	Business Economics	Not offered	3
Courses also available, if timetables match:			
XTELE03	English Language in Engineering (will be tailored based on level and available courses)	Not offered	3
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competences	3	3
T790203D	Entrepreneurship	3	Not offered
		51	36

(*) N.B.! Can be also extended up to 15 ECTS cr as one project, if interests and resources match. When applying, follow the project work guidelines and application procedure! Available in the field of mechanical design, machine automation, automotive engineering, production development or simulation. Can be chosen only in one term!

Civil Engineering

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

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T528405	Finnish Construction Industry	5	5
T528603	Property and Facility Management in Theory and Practice	3	3
T535705	International Water and Environmental Management	5	5
YY00BH03	Introduction to Project Working	3	3
5F00BK56	Building Modelling	3	3
T529203	Infrastructure Construction Engineering	3	Not offered
YY00BH04	Entrepreneurship	3	Not offered
5F00BK58	Technical Drawing	3	Not offered
5F00BK60	Basics of Geotechnics	4	Not offered
5F00BH65	Water Supply Simulation and Construction	3	Not offered
5F00BH66	Water Supply and Sewerage Simulation and Construction	Not offered	3
5F00BK59	Soil Construction	Not offered	3
T528803	Concrete Structures 1	Not offered	3
T528903	Wooden Structures 1	Not offered	3
5Y00BH15	Engineering English	3	3
Courses also available, if timetables match:			
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T000103	Intercultural Competences	3	3
		50	46

Energy Technology

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

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	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) (*) N.B.! In spring: needs to be taken together with T619505 Hybrid Systems, 5 ECTS cr	9	9
T619505	Hybrid Systems (N.B.! Needs to be taken with T63009 Energy Technology Project)	Not offered	5
T310203	3D CAD 1	3	Not offered
5Y00BC61	Fuels and Combustion	3	Not offered
5G00BC60	Corrosion Prevention	Not offered	5
T528405	Finnish Construction Industry	5	5
Courses also available, if timetables match:			
XTELE03	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T000103	Intercultural Competences	3	3
		44	39

(*) N.B.! When applying, follow the project work guidelines and application procedure! Can be chosen only in one term!

Exchange Programme Laboratory Sciences (Bachelor, 3rd year)

Autumn 2016 Spring 2017

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

Course descriptions available in most cases by clicking and following the course code link!

Code	Course	ECTS cr	ECTS cr
T000320	Project Work (in the area of biotechnology or laboratory analytics) (*)	20	20
Courses also available, if timetables match:			
XTELE03	English Language in Engineering (will be tailored based on level and available courses)	3	3
Y00022E	Finnish Survival Course	3	3
XBCS100	Introduction to the Circumpolar World	6	6
T790203D	Entrepreneurship	3	Not offered
T000103	Intercultural Competences	3	3
		38	35

(*) N.B.! When applying, follow the project work guidelines and application procedure! Can be chosen only in one term!