HELSINKI METROPOLIA UNIVERSITY OF APPLIED SCIENCES
FIELD OF TECHNOLOGY

Contents

Degree Programmes in Finnish with Opportunities for Exchange Students 2013-2014 .................. 2
  1. Degree Programme in Automotive and Transport Engineering .............................................. 2
  2. Degree Programme in Biotechnology and Food Engineering ............................................. 2
  3. Degree Programme in Building Services Engineering .................................................... 3
  4. Degree Programme in Civil Engineering ............................................................................. 3
  5. Degree Programme in Electrical Engineering ..................................................................... 3
  6. Degree Programme in Health Informatics .......................................................................... 3
  7. Degree Programme in Industrial Management and Engineering (Leppävaara, Espoo) ........ 4
  8. Degree Programme in Industrial Management (Helsinki) .................................................... 4
  9. Degree Programme in Information Technology (Leppävaara, Espoo) ............................... 4
 10. Degree Programme in Laboratory Sciences ........................................................................ 5
 11. Degree Programme in Mechanical Engineering ............................................................... 5
 12. Degree Programme in Media Technology ......................................................................... 5

Degree Programmes in Finnish with No Opportunities for Exchange Students 2013-2014 ........... 6
  1. Degree Programme in Automation Engineering ................................................................. 6
  2. Degree Programme in Construction Site Management (Helsinki) ....................................... 6
  3. Degree Programme in Information Technology (Helsinki) ................................................ 6
  4. Degree Programme in Construction Site Management (Leppävaara, Espoo) ..................... 6
  5. Degree Programme in Chemical Engineering .................................................................... 6
  6. Degree Programme in Land Surveying Technology .......................................................... 7
  7. Degree Programme in Materials and Surface Treatment Technology ............................... 7
  8. Master’s Degree Programme in Automation Technology ................................................... 7
  9. Master’s Degree Programme in Building Services Engineering ....................................... 7
  9. Master’s Degree Programme in Land Surveying Technology ........................................... 7
In the following degree programmes, the language of tuition is Finnish. However, in certain programmes special projects, laboratory courses and/or Final year projects in English might be possible. All of these are subject to availability. Furthermore, the degree programmes with currently no opportunities for exchange students are listed at the end for reference.

1. Degree Programme in Automotive and Transport Engineering

Specialisation:
- Automotive Electronics Engineering
- After Sales Auto Engineering
- Transport Logistics
- Automotive Design

Extent of the programme: 4 years, 240 ECTS credits

Studies in English:
The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Occasionally, there might be opportunities for work placements in the degree programme laboratories. Please note that the special projects, Bachelor’s Thesis as well as work placement opportunities are subject to availability depending on e.g. on-going projects.

2. Degree Programme in Biotechnology and Food Engineering

Specialisation:
- Bioprocessing and Quality Management
- Biomedicine

Extent of the programme: 4 years, 240 ECTS credits

Studies in English:
The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do laboratory courses and smaller special projects in English in the degree programme. Please note that the special projects and laboratory courses are subject to availability depending on e.g. on-going projects.
3. Degree Programme in Building Services Engineering

Specialisation:

- HVAC Engineering, planning based (HVAC)
- Electrical and IT Engineering in Buildings (E)
- HVAC Engineering, production based (PB)

Extent of the programme: 4 years, 240 ECTS credits

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis opportunities are subject to availability depending on e.g. on-going projects.

4. Degree Programme in Civil Engineering

Specialisation:

- Structural Engineering
- Construction and Site Management
- Environmental Construction

Extent of the programme: 4 years, 240 ECTS credits

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis opportunities are subject to availability depending on e.g. on-going projects.

5. Degree Programme in Electrical Engineering

Specialisation:

- Electrical Power Engineering
- Electronics and Medical Engineering

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis opportunities are subject to availability depending on e.g. on-going projects. For courses in English, please see Degree Programme in Electronics.

6. Degree Programme in Health Informatics

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Occasionally, there might be opportunities for work placements in the degree programme laboratories. Please note that the special projects, Bachelor’s Thesis as well as work placement opportunities are subject to availability depending on e.g. on-going projects.
7. Degree Programme in Industrial Management and Engineering (Leppävaara, Espoo)

Specialisation:

- Logistics and Business

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. However, the degree programme offers Technology Business Module in which language of tuition is English. The Technology Business Module includes variety of business and management related courses directed especially for engineering students. The incoming exchange students are welcome to take different courses from the Technology Business Module. Several courses are offered throughout the academic year totalling up to 30 ECTS credits. Availability of Technology Business Module is uncertain for academic year 2013-2014.

Incoming exchange students are also offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis are subject to availability depending on e.g. on-going projects.

8. Degree Programme in Industrial Management (Helsinki)

Specialisation:

- Global ICT Business

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition during the first, second and fourth year are in Finnish. The third year semesters are offered in English.

9. Degree Programme in Information Technology (Leppävaara, Espoo)

Specialisation:

- Software Engineering
- Embedded Engineering
- Telecommunications
- Data Networks

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. The incoming exchange students can take courses from the Information Technology Degree Programme in English that is parallel to the Finnish degree programme. Incoming exchange students are also offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis opportunities are subject to availability depending on e.g. on-going projects.
10. Degree Programme in Laboratory Sciences

Specialisation:

- Bio Sciences
- Chemical Analysis

Extent of the programme: 3.5 years, 210 ECTS credits

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Occasionally, there might be opportunities for work placements in the degree programme laboratories. Please note that the special projects, Bachelor’s Thesis as well as work placement opportunities are subject to availability depending on e.g. on-going projects.

11. Degree Programme in Mechanical Engineering

Specialisations:

- Energy and Environmental Engineering
- Machine Automation
- Production Engineering
- Machine Design Engineering

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Occasionally, there might be opportunities for work placements in the degree programme laboratories. Please note that the special projects, Bachelor’s Thesis as well as work placement opportunities are subject to availability depending on e.g. on-going projects.

12. Degree Programme in Media Technology

Specialisation:

- Graphic Technology
- Digital Media

Extent of the programme: 4 years, 240 ECTS

Studies in English:

The tuition in this degree programme is in Finnish. However, incoming exchange students are offered opportunities to do smaller special projects and/or Bachelor’s Thesis in English in the degree programme. Please note that the special projects and Bachelor’s Thesis opportunities are subject to availability depending on e.g. on-going projects. Some Graphic Technology related courses are offered in English in Media Engineering Degree Programme, see the curriculum.
1. Degree Programme in Automation Engineering

Specialisations:
- Manufacturing Automation
- Process Automation
- Information Technology in Automation
- Energy Automation

Extent of the programme: 4 years, 240 ECTS credits

2. Degree Programme in Construction Site Management (Helsinki)

Specialisation:
- Construction Engineering
- Infra Construction

Extent of the programme: 3.5 years, 210 ECTS credits

3. Degree Programme in Information Technology (Helsinki)

Specialisation:
- Telecommunications
- Software Engineering
- Data Networks

Extent of the programme: 4 years, 240 ECTS

Studies in English: The tuition in this degree programme is in Finnish. For courses in English, please see Information Technology in English in Leppävaara.

4. Degree Programme in Construction Site Management (Leppävaara, Espoo)

Specialisation:
- HPAC

Extent of the programme: 3.5 years, 210 ECTS credits

5. Degree Programme in Chemical Engineering

Specialisation:
- Process Design and Operation
- Environmental Technology

Extent of the programme: 4 years, 240 ECTS credits
6. Degree Programme in Land Surveying Technology

**Specialisation:**
- Geoinformatics
- Measurement Technologies
- Environmental Planning
- Cadastral Surveys

**Extent of the programme:** 4 years, 240 ECTS

7. Degree Programme in Materials and Surface Treatment Technology

**Specialisation:**
- Industrial Surface Treatments
- Surface Treatment of Buildings
- Materials and Corrosion Technology

**Extent of the programme:** 4 years, 240 ECTS

8. Master's Degree Programme in Automation Technology

**Specialisation:**
- Special emphasis in the degree programme is given on the modern and latest automation technology, wireless networks, automation project management and the safety and quality aspects of automation.

**Extent of the programme:** 2 years, 60 ECTS credits (part-time studies)

9. Master's Degree Programme in Building Services Engineering

**Specialisation:**
- HVAC Engineering (HVAC)
- Electrical and IT Engineering in Buildings (E)

**Extent of the programme:** 2 years, 60 ECTS credits (part-time studies)

9. Master's Degree Programme in Land Surveying Technology

**Specialisation:**
- Cadastral proceedings
- Geoinformatics

**Extent of the programme:** 2 years, 60 ECTS credits (part-time studies)