A person with blonde hair, wearing a white dress and a green backpack, stands on a rocky outcrop looking out over a vast landscape. The landscape features a large body of water, likely a lake or fjord, surrounded by dense green forests and distant hills. The sky is filled with soft, colorful clouds, suggesting a sunset or sunrise. The person's reflection is visible in a small puddle on the rock they are standing on.

**Tunne huominen.  
All for the future.**

**SOUTH-EASTERN FINLAND  
UNIVERSITY OF APPLIED  
SCIENCES, XAMK**



# All for the future.

**South-Eastern Finland University of Applied Sciences** – Xamk – is an institute of higher education which focuses on

wellbeing,  
technology and  
creative industries

**Xamk is the 5th** largest university of applied sciences in Finland. We provide education in eight fields of study, participate in research and development and provide services to the businesses and residents of the area. There are campuses in four towns: Kotka, Kouvola, Mikkeli and Savonlinna.

**International cooperation is** an important part of our profile, with more than 350 partner educational institutions around the globe.

9480 students

850 employees

1700 graduates per year

74 degree programs

4 campuses

300+ partner institutions  
around the world

Annual turnover EUR 70  
million

63 million euros total  
volume of research  
funding

15 million euros  
external RDI funding



## NUMBER OF XAMK STUDENTS IN CAMPUS TOWNS

Mikkeli

STUDENTS

**3 900**

Kouvola

STUDENTS

**1 900**

42 %  
MIKKELI

8 %  
SAVON-  
LINNA

20 %  
KOUVOLA

30 %  
KOTKA

Savonlinna

STUDENTS

**700**

Kotka

STUDENTS

**2 800**

**XAMK**

# City of Mikkeli

The city of Mikkeli is the capital of the Province of Eastern Finland and it is situated by the Lake Saimaa.

Population approximately 50.000

Good connections to eastern, southern and central Finland give great opportunities to local business and travelling.

Diverse business in Mikkeli is based on forest and timber, information technology, food products, metal and tourism



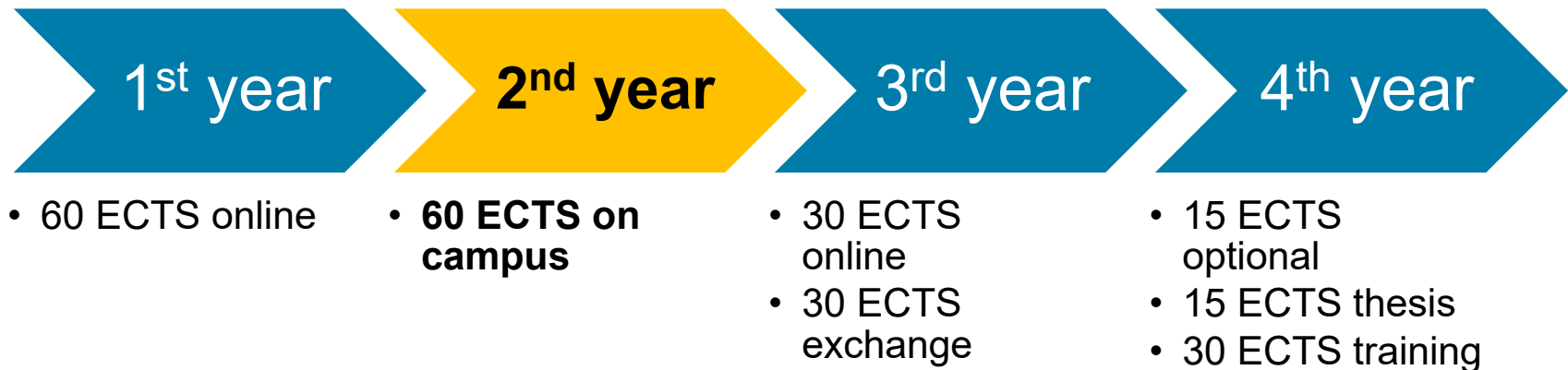
# Environmental Engineering

Bachelor or Engineering, 240 ECTS



# Make a Future.

**The Degree Programme in Environmental Engineering (EE)** provides you with a wide approach to the professional field of environmental technology. You learn about the causes, consequences and prevention of environmental problems: from local oil spill to global problems, such as climate change and microplastics in waters.



# 2nd year. On-campus studies.

**WE. LOVE. LABS!**

<b>Water and soilscience</b>		<b>Air and biological science</b>	
Laboratory skills and safety		Air and biological sampling	
Water and soil sampling		Air and biological laboratory	
Water and soil laboratory		Ecotoxicology and statistics	
<b>Advanced professional skills</b>		<b>Environmental information systems</b>	
Practical physics and chemistry		Environmental modelling	
Finnish 2/Swedish 1		Environmental applications of geographical information systems (GIS)	
Environment now		Environmental management systems	



# Environmental engineering, B.Eng., 240 ECTS

General competence: learning skill, ethical skills, work community competence, innovation skills, international competence. Degree specific competence: Environmental monitoring and risk assessment, environmental protection and remediation, sustainability tools (e.g. circular economy)

Optional studies 15 cr

Thesis 15 cr

Practical training 15 cr

Practical training 15 cr

Environmental safety, 15 cr

Optional professional studies 30 cr

Research and project skills 15 cr

Water and soil science, 15 cr

Air and biological science, 15 cr

Advanced professional skills, 15 cr

Environmental information systems,  
15 cr

Study skills, 15 cr

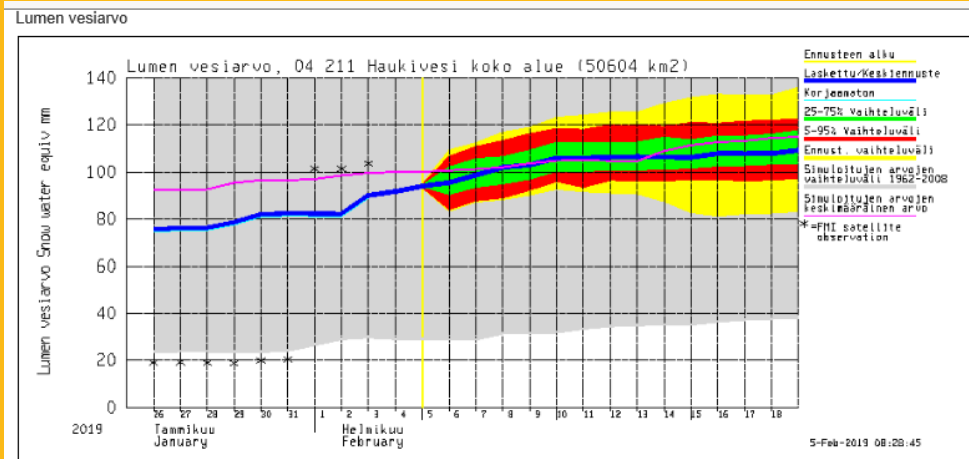
Professional skills, 15 cr

Introduction to environmental  
studies, 15 cr

Environmental protection  
15 cr

Core competence

Additional competence



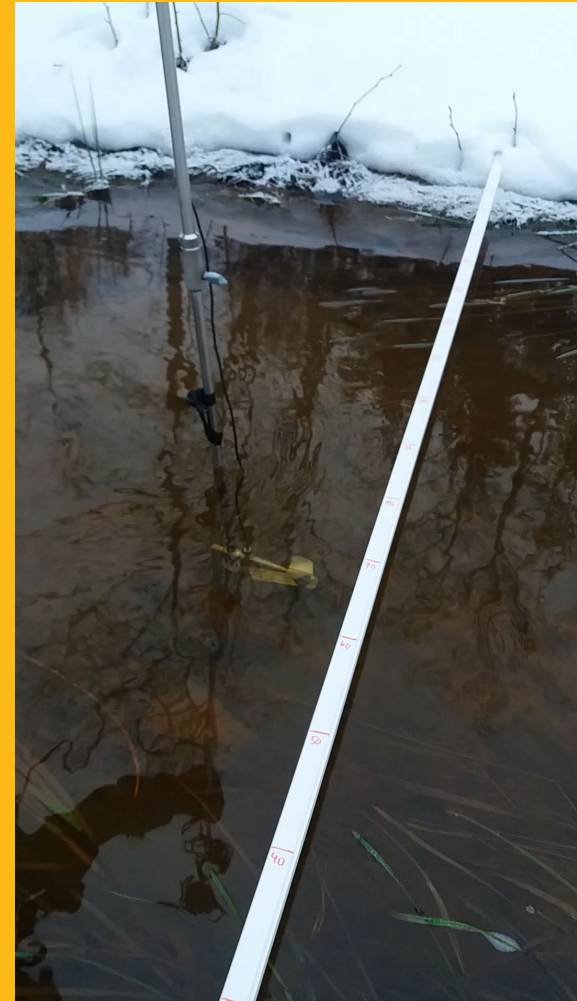




## Introduction



## Soil sampling











# Internationalization and Employability

# A past vision of the future has become reality.

"A COMPANY CANNOT BE IN BUSINESS WITHOUT CONSIDERING THE ENVIRONMENT IN SOME WAY"

This has a tremendous effect on EE work market. Basically, with right set of knowledge acquired during the studies, every company is a potential employer.

Where do our graduates work now?

# What do environmental engineers do?

Environmental engineering jobs focus on developing and implementing solutions to environmental problems such as pollution, resource and waste management, sustainability, hydro and wind power generation. They also study the effects of the environment on human populations in both urban and rural areas.

Environmental engineers analyze environmental data and perform assessments on sites and facilities, perform quality checks and assess compliance with environmental laws and regulations, advise corporate and government agencies on environmental protection, pollution and waste remediation, civil infrastructure, agriculture and global climate change.

**“When this job is done well, the Earth gains a little protection, so future generations can enjoy its value”**

# Typical job titles

- EHS-engineer (Environmental, health and safety engineer)
- Project manager
- Environmental Health Specialist
- Environmental Consultant
- Quality manager
- Planning, research or development engineer



# Questions and Answers



**Tunne huomisen - All for the future.**