

Master studies at ITS

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Department of Technology Systems, you say?

- Based at Kjeller Science Park where the Internet first came to Europe
- Foundation (started by UiO and establishments at Kjeller) for 30 years; since 2017 a department at MN/UiO

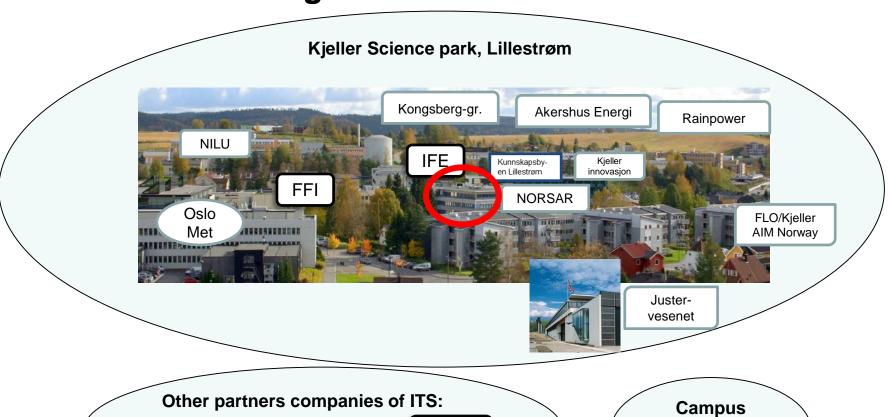


- About 12 full-time researchers
- About 30 lecturers and supervisors with main positions in industry or research establishments

Thales

Accociated organisations

ABB



16.08.2023

Telenor

Blindern

ITS

- Purpose: Take the knowledge and research available in the science park, and insert it into the University
- ~40+ courses for Master and PhD students taught by researchers from Kjeller Science Park and other research establishments

Supervisors for Master's and PhD theses

Teachers and supervisors from:

































Research areas and Master's studies

- Two sections and one Centre for research based innovation:
 - Energy Systems
 - Autonomous Systems and Sensor Technologies
 - CENSSS, Centre for Space Sensors and Systems (RIMFAX)
- Three Master's studies/programme options:
 - Renewable Energy Systems
 - I:Robotics: Cybernetics and Autonomous Systems
 - Space Systems

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University of Oslo

Courses at ITS

Autonomous Systems and Sensor Technologies

TEK4030	Control of manipulators and mobile robots
TEK4040	Mathematical modelling of dynamic system

TEK4050 Stochastic systems

TEK5010 Multi-agent systems

TEK5020 Pattern Recognition

TEK5030 Computer Vision

TEK5040 Deep learning for autonomous systems

TEK5600 Visualization of scientific data

Space Sensors and Systems

TEK4000 Systems Engineering

TEK4010 Optics and light

TEK4700 Space Systems

TEK4710 Space Sensors and Communications

TEK5050 Detection of Optical and Infrared Radiation

TEK5130 Satellite Communications

TEK5160 Radar remote sensing

TEK5710 Design of Small Satellites (2024)

TEK5720 Project in Space Systems (2024)

Security and Cyber Physical systems

TEK4500 Introduction to Cryptography

TEK5070 Wireless communications for autonomous and critical sensor systems

TEK5110 Building and Monitoring Communication Networks

TEK5510 Security in operating systems and software

TEK5520 Information security in industrial sensor and mobile systems

TEK5530 Measurable Security for the Internet of Things

TEK5550 Advanced topics in cryptology

Energy Systems

TEK5300 Renewable energy: science and technology

TEK5330 Solar Energy Systems

TEK5340 Energy systems analysis: Modelling, methods and scenarios

TEK5350 Energy Markets and Regulation

TEK5370 Grid, smartgrid og IoT

TEK5380 Prosjekt innen fornybar energi

TEK5390 Hydrogenteknologi

FEK5410 Energy Markets and Regulation - Modelling and Analysis

TEK5420 Norway's Energy Transitions: Policy Directions and Challenges

TEK5440 Batteries: Technology and Systems



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http://www.uio.no/studier/emner/matnat/its/



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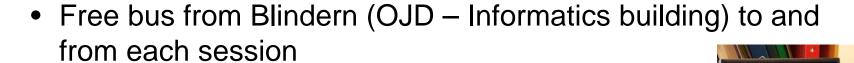
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Attending courses at ITS

- Two teaching sessions
 - 09:15-12:00 /13:15-16:00



 A lot of our courses are video transferred (streaming / recording / zoom)



Contact



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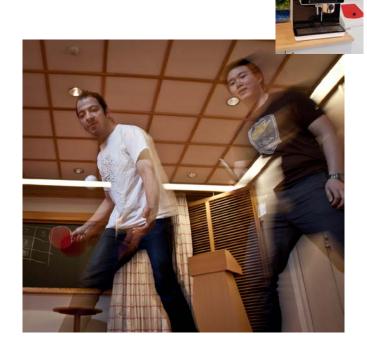
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