

ACOUSTICS RESEARCH CENTRE

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Aircraft noise

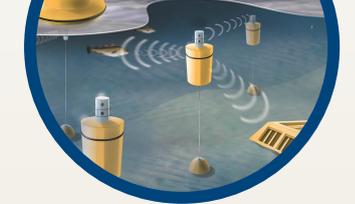


Aircraft photo: Maarren Visser



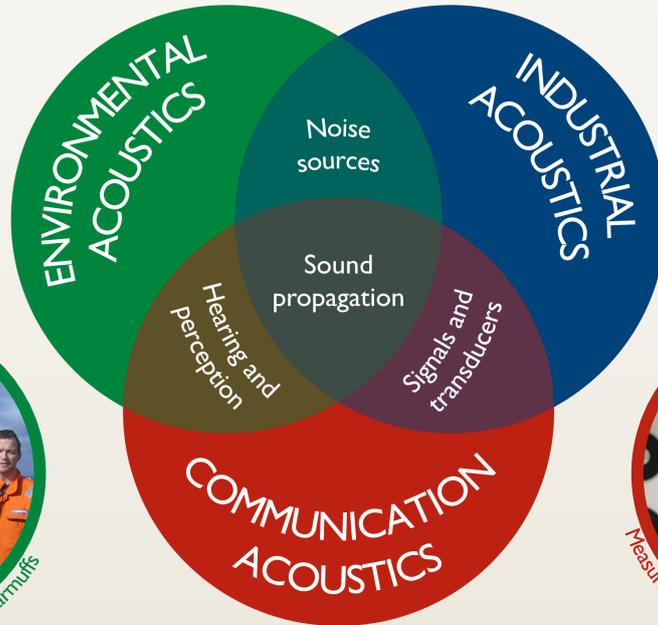
Intelligent earplugs vs. traditional earmuffs

Network for underwater acoustic communication



Measuring in the sound lab using an artificial head

Dummy head photo: Thor Nielsen



ENVIRONMENTAL ACOUSTICS

Reducing the impact of unwanted sound

Topics

- Noise prediction
- Environmental monitoring, prediction, and control
- Building acoustics
- Noise reduction technology
- Predicting annoyance
- Hearing protection

Introductory courses

- TTT4180 Technical Acoustics
- TTT17 Environmental Acoustics



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COMMUNICATION ACOUSTICS

Improving and creating wanted sound

Topics

- Electroacoustics
- Hearing and perception
- Musical acoustics and technology
- Room acoustics
- 3D sound and auralisation
- Acoustic signal processing
- Hearing aids

Introductory courses

- TTT4180 Technical Acoustics
- TTT4197 Musical Acoustics
- TTT4170 Audio Technology



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INDUSTRIAL ACOUSTICS

Understanding and applying the physical behaviour of sound

Topics

- Marine acoustics
- Underwater communication
- Flow acoustics
- Ultrasonic non-destructive testing
- Instrumentation, transducers, and sensors
- Signal and array analysis

Introductory courses

- TTT4180 Technical Acoustics
- TTT4175 Marine Acoustics



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