WIRELESS COMMUNICATION SYSTEMS
MASTER’S PROGRAMME

Would you like to work with wireless communication solutions, i.e. everything from desktop/gadget connections, industrial machine control and traffic control to data- and video traffic in cellular networks? Are you fascinated by wireless solutions involving miniature terminals such as Bluetooth, ZigBee, RFID or by exploring dynamic antenna systems and high-capacity traffic?

The master’s programme in Wireless Communication Systems at Aalborg University aims to educate engineers with competences within wireless communication systems and associated connectivity concepts. Particular focus is given to small terminal behaviour and system radio resource control under dynamic radio channel and traffic conditions.

THE PROGRAMME

On the 1st semester, you work with signal processing and communication in relation to radio communication. Included here are design, analysis and implementation. On the 2nd semester, you are introduced to digital communication of analogue or digital data via a dynamic varying radio channel. You will work with radio communication systems, covering both ends of the communication chain, transmission techniques and radio-access technology. On the 3rd semester, you will work with a problem concerning advanced wireless communication in a multi-user, multi-antenna or multi-network set-up. The entire system consists of several individual communication connections which are viewed as a whole in relation to joint performance optimisation. The 4th semester is reserved for work on your master’s thesis.

PROBLEM BASED LEARNING

The study method at Aalborg University is called problem based project work, or “The Aalborg Model for Problem Based Learning (PBL)”, and is highly recognised both nationally and internationally. UNESCO has placed its only Professorial Chair in PBL at AAU. Among others, it means that each semester, you will work closely together with a group of fellow students on a large written assignment. See more at www.en.aau.dk/education/problem-based-learning

FOR MORE INFORMATION

Website:
WWW.EN.AAU.DK/EDUCATION/MASTER/WIRELESS-COMMUNICATION-SYSTEMS

The programme’s student counsellor:
E-SV@ES.AAU.DK

AAU’s Central Student Guidance Service:
STUDIEVEJLEDNING@AAU.DK
+45 9940 9440

How to apply for admission:
WWW.EN.AAU.DK/EDUCATION/APPLY/MASTER/HOW-TO-APPLY

THE PROGRAMME IN BRIEF

ADMISSION REQUIREMENTS
Bachelor’s degrees in Electronics Engineering qualify for the master’s in Wireless Communication Systems.

RESTRICTED ADMISSION
All applicants who meet the admission requirements are admitted.

LEARN ABOUT
Wireless radio transmission
Antenna systems
Radio access techniques
Induction field terminals
Electromagnetic modelling

PLACE OF STUDY
Aalborg

IF YOU HAVE AN INTEREST IN
It, electronics & programming

JOB OPTIONS WITHIN
Communications- and antenna systems
Development of terminal solutions
Communication protocols for wireless networks
Planning of wireless infrastructure

WWW.EN.AAU.DK/EDUCATION/APPLY/MASTER/HOW-TO-APPLY