Programme overview
The Master’s programme in Wireless Communication prepares students for an exciting career within a rapidly expanding industry. The University has excellent resources in the area of wireless communication, and can offer students the opportunity to learn from world-leading researchers, in state-of-the-art laboratory facilities. Research and education are closely linked within the department. All of our teachers are themselves educated to PhD level or higher, and are actively engaged in research.

The Wireless Communication programme focuses on the physical and lower layers of wireless communication. The aim is to give our students in-depth system knowledge, which in turn requires insights into the various components in a wireless system. The courses included in the programme all hold a high international standard.

In addition to the taught courses, all of our students undertake a research project for their Master’s thesis. The project can be academic in nature, or developed within industry, and can be carried out either in Lund or abroad. These projects can sometimes lead to patent registration and successful entrepreneurial initiatives.

The programme features both theoretical and practical learning, as well as plenty of group assignments and presentations, allowing students to develop supplementary skills that further increase

Programme modules/courses

COMPULSORY COURSES AND NUMBER OF CREDITS:
- Digital Communications (7.5)
- Basic Wireless Communication Technique (7.5)
- Digital Communication – Advanced Course (7.5)
- Antenna Technology (7.5)
- Channel Modelling for Wireless Communications (7.5)
- Advanced Telecommunication (7.5)
- Radio Systems (7.5)
- Multiple Antenna Systems (7.5)
- Project in Wireless Communications (7.5)
- Master’s degree project (30)
- electives (22.5 in total).

ELECTIVES: 22.5 credits in total.

Career prospects
The programme provides students with a solid grounding for a career in wireless communication – either in industry or academia. On completion of the programme, our graduates have the necessary skills for both research and development, e.g. understanding and developing future wireless systems, developing wireless networks for special applications and understanding and enhancing existing solutions. The programme also provides an excellent foundation for PhD studies in the field, as shown by the fact that almost 40 percent of our students have continued towards a PhD degree after graduation.

The skills our alumni possess are in high demand globally, particularly within developing markets, and former students can be found all over the world. Many have found work and started their careers in Australia, China and the USA, as well as right here in Lund.

The surrounding area is home to a number of global household brands such as Sony, Ericsson, and Nokia. Other companies with operations close to the University include Huawei, ARM Sweden and Axis. A large proportion of students start working with these companies directly after graduation. Within the near future we will also have new neighbours in the form of two large-scale European and international research centres – ESS and MAX IV – which will both create exciting opportunities for our students.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A Bachelor’s degree in electrical engineering, computer engineering, information technology or equivalent including courses in mathematics of at least 20 ECTS credits. The applicant must have knowledge of probability theory, signal...
processing, telecommunication, electromagnetic field theory and circuit theory, corresponding to no less than 6 months of study. English 6/English Course B. See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/wireless. Click on “Apply” and follow the instructions for the online application at the Swedish national application website www.universityadmissions.se. Rank the chosen programmes in order of preference.
2. Submit your supporting documents: Check what documents you need to submit (i.e. official transcripts, degree diploma/proof of expected graduation, translations, proof of English, passport) and how you need to submit them at www.universityadmissions.se.
3. Pay the application fee (when applicable).

SELECTION CRITERIA/ADDITIONAL INFO
The selection is based on academic qualifications.

TUITION FEES
There are no tuition fees for EU/EEA citizens. For non-EU/EEA citizens the tuition fee for this programme is SEK 145 000 per year. For details on tuition fees, see www.lunduniversity.lu.se.

About the Faculty of Engineering
The Faculty of Engineering at Lund University (LTH) is among the leading engineering faculties in Europe with over 9,000 undergraduate students and 800 postgraduates. LTH is one of the few comprehensive engineering faculties in Sweden, and in addition to traditional engineering programmes we also offer programmes in architecture and industrial design. With a 50-year long history of research and education excellence, we are well equipped to meet the increasing global demand for more sustainable, connected and user-driven technologies, and to provide our students with the knowledge and skills they need in order to succeed within their chosen field.

About Lund University
Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 41,000 students and 7,500 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Lund is Sweden’s most attractive study destination. The University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The compact university campus encourages networking and creates the conditions for scientific breakthroughs and innovations. The University has a clear international profile, with partner universities in over 70 countries.

Funding of more than SEK 5 billion a year goes to research at eight faculties, which gives us one of Sweden’s strongest and broadest ranges of research activity. Over 30 of our research fields are world-leading, according to independent evaluations.

Two of the world’s leading materials research facilities are currently under construction in Lund: the MAX IV Laboratory, inaugurated in June 2016, is the leading synchrotron radiation facility in the world, and the European research facility ESS, which will house the world’s most powerful neutron source. The two facilities will be of decisive importance for future scientific and industrial development in both materials science and life science.

Learn more at www.lunduniversity.lu.se
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