MASTER’S PROGRAMME
INTERACTION TECHNOLOGY (I-TECH)

Are you eager to create pioneering technologies enabling interaction, while also engaging with societal needs and end users? Are you as excited about computer science and electrical engineering as you are about analysing human behaviour and exploring user contexts? Are you passionate about developing, presenting and implementing technological solutions to fulfil the real needs and wants of people and society? Then our new two-year, English-taught Master’s programme Interaction Technology is the right choice for you.

GROWING DEMAND IN INTERACTION TECHNOLOGY

With the rise of new technologies, devices and forms of connectivity, we are seeing more and more intelligent, interactive systems capable of supporting and extending human activities. Think, for example, of multimodal, wearable technology and social robots. Rapid progress in combinations of electrical engineering and computer science are fueling this development with innovations like smart sensors. The field of Interaction Technology is where technology transforms our daily lives.

HIGH TECH HUMAN TOUCH

Interaction Technology calls for expertise in the combination of technical development and the analyses of human needs and behaviour. Our Master’s programme covers the whole spectrum. On the technology side, the programme includes in-depth courses in computer science and electrical engineering. On the human side, you will learn to analyse human behaviour and user contexts, but also extend your entrepreneurial and design skills in a research context. This will ensure the best possible connection between your technological solution and the people or organizations you are targeting.

QUICK FACTS

Degree
Master of Science
Mode of study
Full-time
Credits
120 EC
Programme
2 years
Starts
September or February
Language
English
Website
www.utwente.nl/go/itech

WHY THIS PROGRAMME?

The range of programmes related to Interaction Technology offered by universities around the world is growing. Our programme is able to combine the best insights from domains like Computer Science, Electrical Engineering and Creative Technology. You will learn to merge those insights into innovative applications with an impact on society.
DISTINCTIVE FEATURES OF OUR I-TECH PROGRAMME

DEPTH AND BREADTH
Interaction Technology students are eager to deepen their technical knowledge and skills, but not exclusively: they also want to add entrepreneurial and design capabilities while working in a research context. This will make you a highly trained engineer with a broad, cross-disciplinary outlook – a rare and much wanted combination on today’s job market.

SPECIALIZATION
While this programme covers the breadth of Interaction Technology disciplines, you will not become a generalist; instead, you can tailor the programme to your own needs and wishes, specializing in the areas of your own choice.

HOW CAN YOU SPECIALIZE?
Within the requirements of the programme (see infographic) you can pick the courses according to your needs and wishes. There are several courses on basic and advanced level. Which course you can choose will also depend on the content of your Bachelor programme. Your course list will be approved by the programme mentor.

APPLICATIONS
The application domains for interaction technology are numerous and growing all the time.

Some examples:
- Communication technology for global activities
- Social robots
- Ubiquitous Computing
- Virtual Reality (VR) and Augmented Reality (AR) applications
- Internet of Things (IoT) solutions
- Healthcare solutions, telemedicine and e-mental health
- Design of persuasive health technology systems
- Mobility and autonomous systems (for example, self-driving cars)
- Interactive learning environments
- Cybercrime science
- Wearable Technology
- Sustainability

EUROPEAN INSTITUTE OF INTERNET & TECHNOLOGY (EIT) PROGRAMME
This programme is also available as part of a double degree offered by the EIT Digital Master School programme (masterschool.eitdigital.eu). The Master’s programme in Human Computer Interaction and Design (HCID) combines ICT engineering on an advanced level with a business minor.

“"In developing technology, I like getting as close to the user as I can.”
Silke ter Stal, 2017 Master Graduate I-TECH
CAREER OPPORTUNITIES FOR I-TECH GRADUATES

With a Master’s degree in Interaction Technology, you will have in-depth knowledge and expertise in key fields of engineering and technology, along with a solid, hands-on understanding of human behaviour and the interaction between people and technology. You will have special skills either as an entrepreneur, a designer or a researcher. Our graduates find exciting, challenging jobs within several months of completing their studies.

As a graduate you will be able to:
- launch a social robot or Internet of Things startup
- join a high-tech company as innovator
- lead research in new interactive tech solutions.
- work with algorithms and technology that make interaction possible
- design computer interaction with the human user

You will have what it takes to recognize needs and opportunities, develop outstanding and meaningful interactive solutions on the basis of real user needs and get them to the people who need them. Whatever you decide to do, your unique blend of technology and behavioural understanding will make you stand out from the mass of graduates.

ADMISSION REQUIREMENTS

The English taught Master’s I-Tech is a two year programme worth 120 credits. You are welcome to enroll in this programme with a Bachelor’s degree in Technical Computer Science, Electrical Engineering, Creative Technology, Artificial Intelligence or other relevant qualifications. Additional conditions or admission requirements may apply for students from other Bachelor’s programmes (e.g. minor or pre-Master’s module).

ADDITIONAL REQUIREMENTS:

International students: English-language test results
- Academic IELTS, overall band score of at least 6.5 or,
- TOEFL, internet based (TOEFL-iBT) of at least 90 or,
- Cambridge CAE-C (CPE).

For the minimum CGPA of your country, please visit our Master’s website: utwente.nl/go/master/country-list.

DUTCH UNIVERSITY OF APPLIED SCIENCES:

You may need to complete a pre-Master’s programme first with a maximum of 30 credits.

For more specific admission requirements, please visit our website: utwente.nl/go/itech

ELIGIBILITY CHECK

Our eligibility check is designed to assist you as a student holding a non-Dutch diploma. It will give you an indication of your eligibility to be admitted to the Master’s programme Interaction Technology. The check will take about five minutes to complete. Please note that this is not part of the official admission procedure. No rights can be obtained from the outcome of the eligibility check.

Check your eligibility: utwente.nl/go/itech/eligibility-check