EIT Digital provides cutting-edge ICT excellence in combination with innovation and entrepreneurship training, leading to a double degree and an EIT-labeled Certificate.

This master programme is organised by the EIT Digital Master School in cooperation with Delft University of Technology and 20 other European Universities. The programme has a strong focus on Innovation and Entrepreneurship (I&E), which prepares you for a career in business development within existing companies or for an entrepreneurial career by creating your own start-up.

Delft offers two major’s: Digital Media Technology (DMT) and Cloud Computing and Services (CCS). If you choose the DMT major you will design digital media systems based on computer graphics and image processing, and on communication techniques for distributing digital media and 3D contents. If you choose the CCS major you will pursue innovation from a broad range of applications like electronic commerce, mobile services, online social networks, peer-to-peer systems and Web services.

Programme

The Master of Science programme in ICT Innovation at TU Delft is designed for students with a Bachelor’s degree in Computer Science. This two-year programme, which is taught in English and based on the Erasmus Mundus scheme, in which students spend one year at an ‘entry’ university and one year at a different ‘exit’ university.

In your first year you will start with four technical core courses on the major ICT topics of each programme and the rest you will spend on Innovation and Entrepreneurship. In addition, some elective courses are chosen to prepare for the specialisation in the second year.

For the second year you have to choose a different exit University, where you will start your specialisation. You will also start a thesis project which needs to be combined with an internship at a company or research institute. Directly linked to the master thesis is the I&E thesis (6 ECTS) that will cover the associated business plan for the selected thesis topic.
I'm Antoine Plat, an alumnus from the EIT ICT Labs with a major in Digital Media Technology (DMT). I chose DMT because I was really interested in image processing and enthusiastic about data visualisation. I completed my first year of the EIT ICT Labs Master’s programme in KTH, Stockholm. I chose this destination because I was really attracted by the Scandinavian way of life an renowned education system. The first year of DMT has a fairly broad programme that enhances your general knowledge: from web services to data processing, including digital signal. I got the chance to go to the summer school in Eindhoven. The organisation was amazing, with interesting courses (of I&E), mind-opening talks from entrepreneurs, venture capitalists, the vice president of Philips. I choose TU Delft as my Exit University, not only for the medical imaging specialisation, but also for its reputation in term of computer vision, its large campus and its strategic place in Europe. The second year is more technically oriented. For me, this year was the most enriching part of my whole degree programme. I enhanced my skills in programming, I learned more about image/signal processing and I discovered machine learning and big data. Moreover, Anna Vilanova and Elmar Eisemann are extremely inspiring people. I learned a lot from them and I am grateful I had the opportunity to be under their supervision while working on my Master’s thesis.

### Curriculum ICT Innovation

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<td>Technical Core courses</td>
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<td>Introduction to Innovation &amp; entrepreneurship</td>
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The two majors that are offered by TU Delft are:

**Digital Media Technology** addresses applications in the field of digital media systems, teleconferencing, entertainment, computer games, data and medical visualisation. As new media technologies have shown to be disruptive for existing business models and often have a significant impact on culture and social relations, the programme approaches innovation from an integrated perspective of user-driven design, technology, and commercial opportunities.

The first year is offered by TU Delft and KTH with similar core courses (signal processing, visualisation, advanced networking, web information systems) which provide a common ground and an introduction to the various specialisations given in the second year:

- Hypermedia at Aalto University (Helsinki) focuses on linked data and Web-based services.
- Media Processing and Communications at KTH (Stockholm) focuses on the digital processing of audio, images, video, and immersive visual data for telecommunication applications.
- Medical Visualisation at TU Delft focuses on techniques for acquiring and processing medical images (CT, MRI), and their application for medical diagnosis, planning and operative support. You will be introduced to frameworks for medical visualisation including 3D reconstruction and visual analysis.
- Media Communications Services at BME (Budapest) focuses on technologies and platforms for providing media services.
- Virtual Environments at UCL (London) focuses on design and implementation of virtual environments, advanced computer graphics, and visual computing.
- Semantic Media at UNITN (Trento) focuses on technologies to bridge the gap between signal processing applied to multimedia data, and the relevant fields of media analysis.

**Cloud Computing and Services** focuses on a broad range of applications like cloud computing, mobile services, online social networks, peer-to-peer systems and web services. The process of developing distributed software systems is significantly more complex than for centralised systems, because all these applications have information sources and control that are decentralised over the network and multiple data centres. Their underlying systems become distributed, reconfigurable and adaptive.

If you choose this major you will gain a system of knowledge in formal foundations, technological platforms and practical skills in implementing distributed software applications. The programme will also provide you with an insight into current and future directions of the distributed software development. After completion of the study, you will understand and know how to use large distributed systems.
On top of this you will be capable of designing and constructing cloud computing systems and services on networking and computing infrastructures. The first year is offered by Aalto University, TU Berlin, University Rennes 1 and TU Delft with a similar set of courses (distributed systems, advanced network technologies, service technologies and cloud programming models) which provide a common ground and an introduction to the various specialisations given in the second year:

- Cloud Operation at TU Berlin focuses on running and managing these complex cloud systems
- Cloud Infrastructures Un. Rennes 1 focuses on the design and implementation of large-scale cloud infrastructures with special attention to the convergence of distributed systems, telecom and media.
- Data Intensive Computing KTH (Stockholm) focuses on data intensive computing, and on designing large scale storage systems, both at large data centres and distributed across the network on peer-to-peer overlay networks.
- Distributed Information Management UPS (Tacoma) focuses on massive information and data management with a particular emphasis on large-scale distributed systems.
- Distributed Data Processing, TU Delft, focuses on resource management and scheduling in data centres and clouds, both for compute-intensive and data-intensive applications, with special emphasis on performance, reputations, trust, and privacy.
- Mobile Services Aalto University (Helsinki) focuses on mobile cloud computing, connecting phones and other wireless devices to cloud services, innovating new mobile cloud computing applications, and studying the technical challenges related to their development.

**Entrepreneurship**

During the first semester you will be introduced to the basics of business and management. During the second semester you will combine an ICT design project with a business development exercise, where you learn how to turn technology into business and how to write a business plan. A summer school in between the first and second year, will address business opportunities within a societal relevant theme. TU Delft has a wide network of connections with the industry, and with Yes!Delft: a vibrant inspiration and incubation centre where you can start your own business. Yes!Delft already contains and supports over 100 small businesses started by former students.

My name is Nikola Stavrevski and I come from the beautiful Skopje. I’m currently doing my Master in Computer Science as part of the EIT Digital programme in the Cloud Computing and Services track. The programme involves studying at two different universities, so next year I am going to TU Berlin.

I found out about the EIT digital MSc programme through the Career Newsletter of BEST (Board of European Students of Technology). The application process was simple and straightforward, but also quite challenging. I had to propose a business idea, since the EIT Digital Master School is providing not only technical but also entrepreneurial education.

I got accepted and had the opportunity to choose between 20 European universities and I decided to choose TU Delft as my entry University. The excellent learning environment, research facilities and the beautiful city Delft, all contributed to this decision. I looked into the exciting and cutting edge projects that are currently executed here and it made my decision a lot easier. The location of Delft also played a crucial role. The Netherlands is located very conveniently for travelling and is a very lively and vibrant environment. People here are very pleasant, everyone speaks English and if you ever need anything, even people on the street are ready to help you!
Admission is through the EIT ICT Digital Master School: www.masterschool.eitdigital.eu

Deadline
Applications should be submitted before January 15, (non-EU students) and March 15 (EU students).

Applicants should have:

- A bachelor’s degree in Computer Science or Electrical Engineering.
- A minimum of 180 ECTS credits or equivalent academic qualifications from an internationally recognized university (listed in the latest edition of the International handbook of universities).
- Outstanding candidates from closely related disciplines may be considered as well.
- DMT requires students to have previous mathematical education in linear algebra, Fourier methods and probability theory.

Tuition fee

- EU-students receive a fee waiver for the regular tuition fee (at TU Delft 1700 euro). Furthermore, they will receive a mobility grant of 3000 euro to transfer to their exit university.
- Non-EU students need to pay 8000 euro tuition fee.

Scholarships
Highly talented students may be eligible for a scholarship covering the fee, living expenses for 500 euro/month for EU students and 900 euro/month and mobility costs for non-EU students.

For further information
Please visit the webpage for all details, complete requirements, deadlines and contact information, please visit:
www.ewi.tudelft.nl
www.masterschool.eitdigital.eu

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