Select a programme

Cloud and Network Infrastructures

Data Science

Visual Computing and Communication

Embedded Systems

Human Computer Interaction & Design

Autonomous Systems

Cyber Security

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Tomorrow’s Digital Innovators and Entrepreneurs

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Cloud and Network Infrastructures provides a comprehensive view on network and cloud computing. Students will learn to master network management, operation, and design on the one hand and cloud service and deployment models, implementation strategies, and application design on the other. The programme also focuses on future directions of cloud computing, for example, in the fields of edge and fog computing as well as blockchains and distributed ledger applications respectively.

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Data Science

Data abounds: social media, manufacturing systems, medical devices, and countless other sources generate petabytes of data on a daily basis. With this wealth of data, we are at a point in history where we can conduct detailed analyses to detect, discover, and, ultimately, better understand the world around us. In this programme, students learn about scalable data collection techniques, data analysis methods, and a suite of tools and technologies that address data capture, processing, storage, transfer, analysis, and visualisation.

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Visual Computing and Communication

Visual Computing and Communication focuses on the acquisition, processing, analysis, transmission, and rendering of visual information, including aspects of learning and decision making. This is a perfect programme for candidates who are fascinated by the algorithms and services that handle visual information in today’s digital society. Students can be active in the areas of image processing and communication, image analysis, computer vision, computer graphics, augmented reality, visualisation, visual analytics, and web-based and network applications. They are equipped to create products and services for our ocular-centric world.

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Embedded Systems

Embedded Systems focuses on enabling technologies and design methodologies for computer systems. These computer systems are embedded as integral parts of larger systems designed for specific control functions of devices with various electronic and mechanical components. More than 98 percent of the world’s processors are located in embedded systems. In satellites, robots, cars, aeroplanes, mobile telephones, radio transceivers, elevators and washing machines. They form an integral part of the Internet of Things.

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Human Computer Interaction and Design

The programme focuses on study, design, development and evaluation of novel user interfaces and interactive systems which take into account human cognitive and sensory-motor responses and how these influence both technological and business requirements. The programme is interdisciplinary with courses on design and evaluation of interactive systems and a strong emphasis on user-centred design techniques. It is important to understand human responses to and consequences of using information technology as a tool for solving work-related tasks and in product development.

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Cyber Security

Cyber Security focuses on the study of the design, development and evaluation of secure computer systems, which are also capable of ensuring privacy for future ICT systems. Students learn about the future directions of the field including blockchain technologies, crypto-currencies, practical (ethical) hacking, and quantum cryptography. The programme provides an understanding of the concepts and technologies for achieving confidentiality, integrity, authenticity, and privacy protection for information processed across networks.

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Autonomous Systems

Autonomous Systems combines Computer Science and Electronic Engineering to focus on **self-driving cars, robotics and artificial intelligence**. Students learn the latest theoretical knowledge and know how to apply their skills in practical real-life problems. Typical application areas of autonomous systems include autonomous vehicles, intelligent robots, industrial IoT and autonomous software systems.

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