

International Track at the School of Computer Science an Information Technology

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Head of Degree Program MSc IT, Digitalization & Sustainability

**School of Computer Science an
Information Technology**

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Key points of the International Track at HSLU I

«Computer science is international and global»

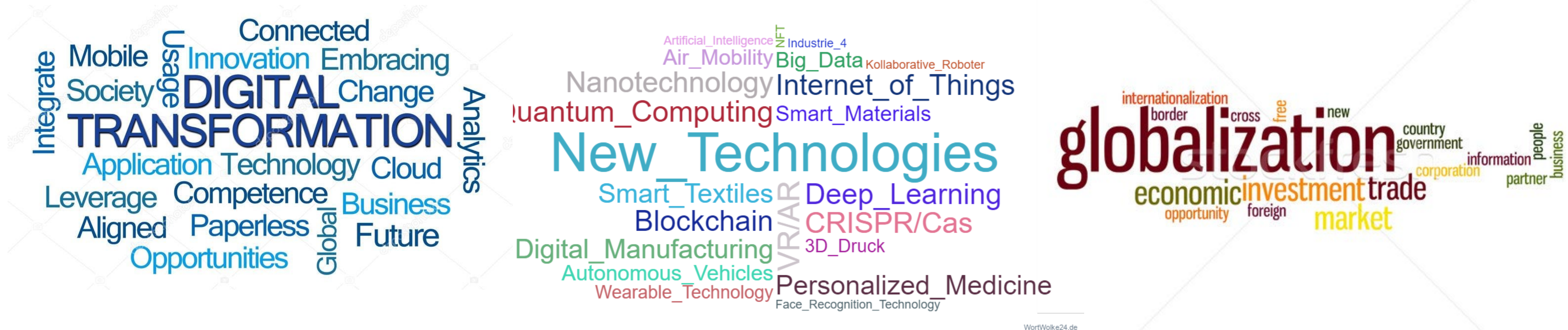
- No English translation of a degree program that exists in German
- International companies require not only a solid technical education but also management and communication skills
 - > interdisciplinary curriculum
- In complex international projects, intercultural competencies are important in addition to professional qualifications and teamwork
- Internationality should be experienced:
 - > international and diverse group of students
 - > active recruiting of foreign students
 - > mandatory semesters abroad
- Focus on future challenges:
 - > disruptive technologies, technological change
 - > digitalization, digital transformation
 - > sustainable development (social, economic & ecological)
- International partnerships and collaborations desired
- Completeness of the track, i.e. option from bachelor to master to PhD

BSc International IT Management

Business of tomorrow is digital, interdisciplinary, intercultural and international



The vision of the Bachelor's program



- Digitalization is a global process that will change the world of tomorrow permanently.
- In order to master this challenge, specialists are needed who, in addition to technical and management competencies, also have international and intercultural experience.
- **The vision of the BSc International IT Management is to create a challenging course of studies in which the international is lived and experienced and which optimally prepares graduates for the digital world of tomorrow.**
- Our graduates have a high level of professional competence in the fields of computer science, project and process management, communication, strategic management, international law and business administration.
- And they are able to successfully carry out complex digitalization projects in internationally composed teams of experts.

Design the International IT Management degree program according to your needs



International experience

The students in the program are internationally diverse, with at least half of the students coming from countries outside of Europe. In addition, all students complete two mandatory semesters abroad at partner universities abroad.



Individual study contents

About one third of the course content (60 ECTS Credits) can be compiled individually in the two mandatory semesters abroad.



Set focus

By choosing a Major in Technology or Digital Business in the semesters abroad, you can set individual priorities.



Freely choosable time model

Compact three years of full-time studies or four years part-time studies

(Notice: There is no crediting of work experience to the degree course)

Opportunities after successful graduation



Master's degree

- MSc in Engineering (Notice: Admission requirement is Major Technology)
- MSc in Business Information Technology
- MSc in IT, Digitalization & Sustainability (1st Start Fall 2022)
- MSc in Business Administration



The International IT Management degree **enables you to work** in various areas and functions in a national or international environment, for example:

- IT Project Coordinator
- IT Project Manager
- Business Analyst
- Digital Marketing Manager
- Software Development/Engineering
- System Administration, Operation, Maintenance
- IT Solution Architect/Engineer
- IT Consultant and more



Structure of the program III: Details time model full-time

6. Semester	Semester abroad «Asia» (Modules depend on the major chosen and on the modules offered at the partner university)							18	Bachelor Diploma Thesis 12
5. Semester	Digital Strategies, Products & Services 3	Finance & Investments 3	(Business) Ethics 3		Artificial Intelligence 6	Blockchain 3	Business Intelligence 3	Academic Methods 3	Intercultural Business Project 6
4. Semester	International Management Accounting 3	Strategic Management 3		Applied Mathematics 3	ERP Applications 3	Software Engineering 3	Information Security 6	Internet of Things 3	Business Project 2 Economics 6
3. Semester	Semester abroad «Anglo-Saxon» (Modules depend on the major chosen and on the modules offered at the partner university)							30	
2. Semester	Leadership & HR 3	International Affairs Economics 3	Anglo-Saxon Culture, Politics & History 3	Applied Statistics 2 3	Advanced English Diploma Course II 3	Business Software Development 3	Web- & Com- munication Technologies 3	Data Management 3	Business Project 1 Technology 6
1. Semester	Business & Supply Chain Management 3	International Financial Accounting 3	International Law 3	Applied Statistics 1 3	Advanced English Diploma Course I 3	Programming Fundamentals 6	Computer & Network Architecture 3	Project Management Professional Communication & Teamwork 6	
	Management & Law			General Skills		Computer Science		Projects & Project Management	

First semester abroad

The first semester abroad will take place during your **3rd semester in the Anglo-Saxon Region**. At the moment there are about ten destinations available, including the following four:

- Dorset College Dublin (*regular fees*)
- London South Bank University (*regular fees*)
- Southern Alberta Institute of Technology (*regular fees*)
- San Jose State University (*special fees*)
- University of the Sunshine Coast (*special fees*)

In addition, students can also suggest a suitable university, we will check it and if it is ok, the students can go there (=freemover option)

The regular student fees for the semesters abroad are currently CHF 2,000, except for certain partners in the USA, Australia and New Zealand where they are much higher.



Second semester abroad

The second semester abroad will take place during your **6th semester in the Asian Region**. There you will also write your bachelor thesis.

At the moment there are about eight destinations available, including the following four (*at the moment all with regular fees*):

- Royal Melbourne Institute of Technology Saigon (Vietnam)
- Seoul National University of Science and Technology (South Korea)
- Gokaraju Rangaraju Institute of Engineering and Technology (India)
- James Cook University Singapore (Singapore)

also here exists the freemover option



Admission Requirements

You must provide evidence of **English proficiency** corresponding to at least level **B2** of the Common European Framework of Reference, if you are a non-native speaker of English (except: GB, IRL, CAN, USA, AUS, NZL). Such evidence must be available by the end of August at the latest. Academic IELTS / TOEFL are recommended.



You have a

A	professional baccalaureate (technical or business)
B	high school graduation
C	higher secondary education certificate qualifying the holder for studies at university
E	Advanced Federal Diploma of Higher Education/ or equal diploma in Economics, Business Informatics, Computer Science or Technology



Additional requirement

None
one year work experience in the field of business administration or IT
one year work experience in the field of business administration or IT
None

MSc IT, Digitalization and Sustainability

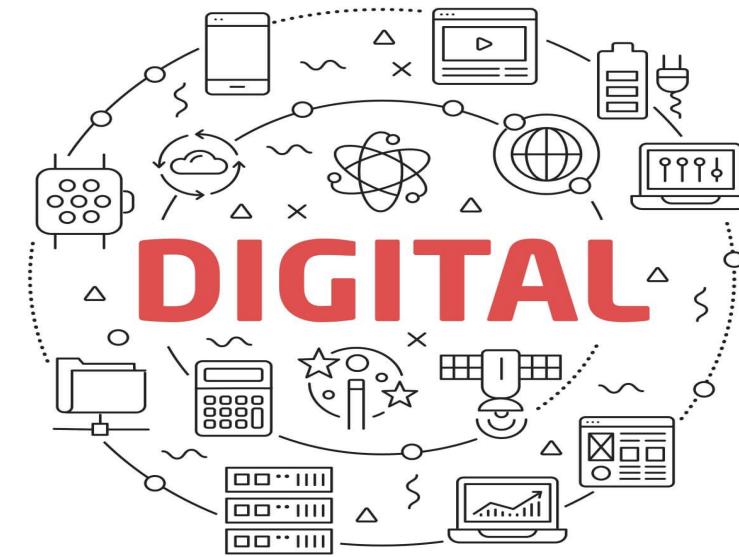
How can information technologies contribute to global sustainable development in the context of digital transformation?



The basic, original idea behind the MSc IT, Digitalization & Sustainability



disruptive technologies



digital transformation



sustainable development

- global issues that continue to confront us with major challenges today and in the future
- the need for international cooperation



Intercultural Competences, Management, Leadership & Project Management



Sustainability

7 digital transformation trends

1. Accelerated digital transformation
2. Elevated CIO roles
3. Increased focus on UX and CX
4. Agile workflows
5. Visual collaboration
6. Rise in small business entrepreneurship
7. Ongoing evaluation of tech stacks

Digitalization, Digital Transformation



Globalisation



Information Technology
Computer Science

Sustainability as a cross-sector topic



Program Content

Sustainability, Sustainable Development Goals

Sustainability encompasses the three areas of the economy, society and ecology and is not exclusively focused on environmental protection



Information Technology, Computer Science

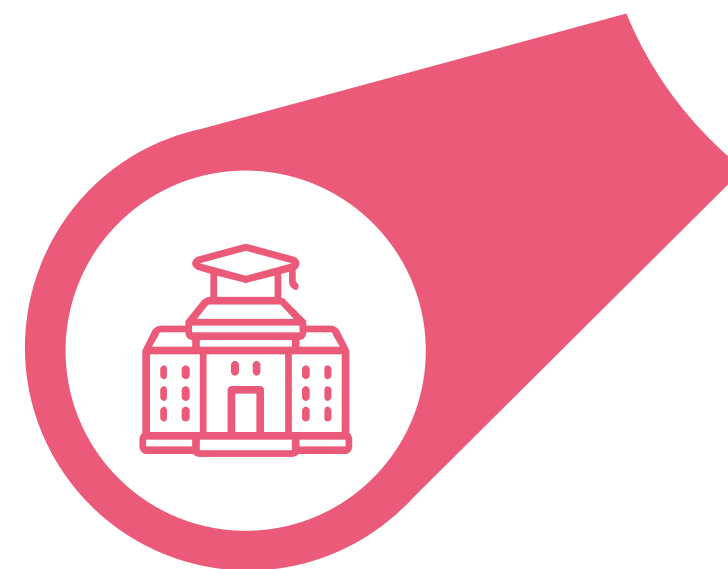
Profound technical skills and in-depth knowledge of the potential applications of information technologies in the economy, society and ecology



MSc Information Technologies, Digitalization & Sustainability

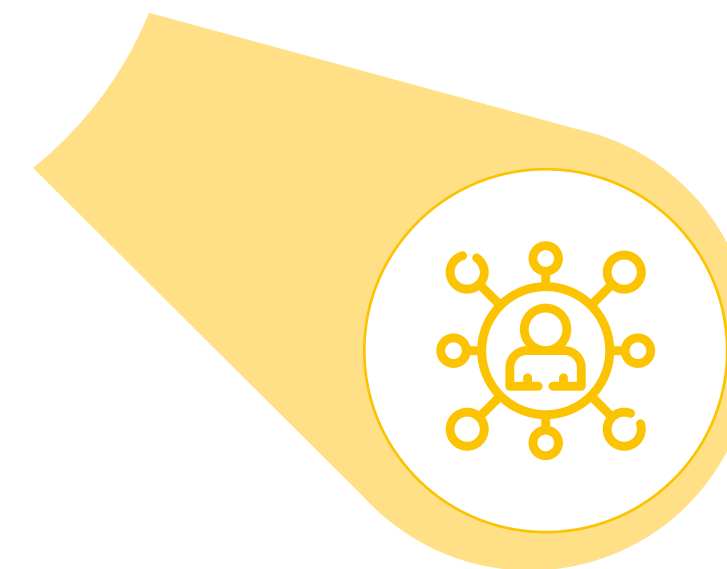
Project Management, Leadership, Intercultural Competences

Project management, leadership skills and intercultural competencies are indispensable in a global and digitalized world

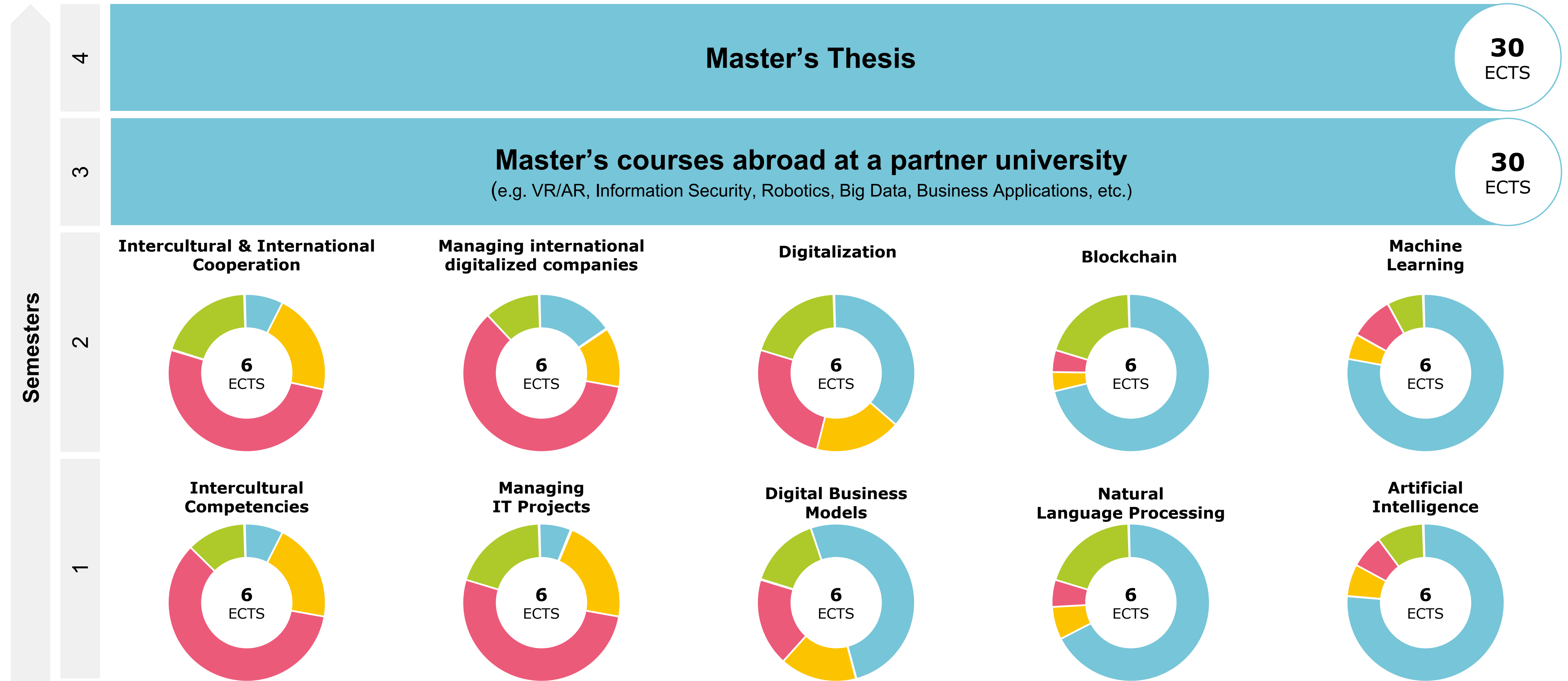


Globalization, Internationality

The challenges in the economy, society and ecology can no longer be solved nationally. International and global cooperation is needed across political and cultural barriers



Overview of the structure and modules of the MSc IT, Digitalization & Sustainability



Prospective international partner universities for a Dual/Double degree

✓ FH Technikum Wien, Austria



✓ Østfold University College, Norway



✓ Mid Sweden University, Sweden



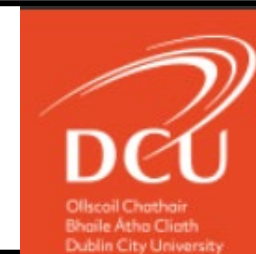
Northeastern Illinois University Chicago



Universidade NOVA de Lisboa, Portugal



Dublin City University, Ireland



National Central University, Taiwan



Universidade de Aveiro, Portugal



James Cook University, Australia



Admission Requirements

Bachelor's degree in	Grade (GPA)	Language Skills	Programming skills	Mathematics and statistical skills
<ul style="list-style-type: none">– BSc Information Technology– BSc Computer Science– BSc International IT Management– BSc Business Information Technology– BSc Engineering– other similar bachelor degree programs are possible («sur dossier»)	<ul style="list-style-type: none">– Swiss Average Grade: 5.0 or above– International Students: GPA 3.3 or above	<ul style="list-style-type: none">– C1 Level (CEFR) in English– No German language skills needed	<p>Either: a minimum of 9 ECTS credits in programming (JAVA; C#; Python)</p> <p>Or:</p> <p>A compulsory preliminary MOOC in programming</p>	<p>Either: a minimum of 9 ECTS credits in linear mathematics, statistics</p> <p>Or:</p> <p>A compulsory preliminary MOOC in mathematics, statistics</p>