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# MASTER (M.A.)


# INFORMATION TECHNOLOGY


# MANAGEMENT

# 60 OR 120 ECTS


Information Technology is driving digital transformation, forming the basis for innovative business processes. IT managers are in high demand due to their knowledge on building and developing digital services. IU's Information Technology Management programme equips you with the tools required to succeed in these leadership positions. You will gain industry-specific knowledge and business-related skills to start out on a career path in managing IT. This 120-ECTS degree programme is ideal for undergraduates who have gained a bachelor's degree in business or management and want to move into the exciting IT field. Learn to develop and implement IT strategies to lead companies and teams to success.


Looking to boost your career in IT with a master's degree, but graduated your bachelor studies in a different field? You can start this 60-ECTS degree if you demonstrate relevant work experience in IT. In this way, you can link relevant IT specific knowledge with excellent management skills.

 **Degree**  
Master of Arts (M.A.)

 **Electives**  
In the Information Technology Management 120 ECTS (60 ECTS) online programme, you can choose electives worth 20 ECTS (10 ECTS) and focus on interesting practical areas.

 **Study model and accreditation**  
– Online  
– German accredited institution, recognised by ZFU (German Central Office for Distance Learning)

 **Study start and duration**  
Anytime  
Duration: 60 ECTS: 12, 18, or 24 months;  
120 ECTS: 24, 36 or 48 months

 **Credits**  
60 or 120 ECTS

**iu** INTERNATIONAL  
UNIVERSITY OF  
APPLIED SCIENCES

## Study Content (60 or 120 ECTS)

MODULE TITLE	SEMESTER	CREDITS (ECTS)	TEST TYPE
<b>60-ECTS MODEL</b>			
<b>IT Systems: Software</b>	<b>1</b>	5 ECTS	E
<b>IT Systems: Hardware</b>		5 ECTS	E
<b>Networks and Distributed Systems</b>		5 ECTS	E
<b>IT Governance and Compliance</b>		5 ECTS	E
<b>IT Service Management</b>		5 ECTS	E
<b>Advanced Research Methods</b>		5 ECTS	WAWA
<b>2</b>			
<b>IT Strategy</b>	5 ECTS	E	
<b>Elective A</b>	10 ECTS		
<b>Master Thesis &amp; Colloquium</b>	15 ECTS		WAMT & PC

MODULE TITLE	SEMESTER	CREDITS (ECTS)	TEST TYPE
<b>120-ECTS MODEL</b>			
<b>IT Systems: Software</b>	<b>1</b>	5 ECTS	E
<b>IT Systems: Hardware</b>		5 ECTS	E
<b>Networks and Distributed Systems</b>		5 ECTS	E
<b>Strategic Management</b>		5 ECTS	E
<b>International IT Law</b>		5 ECTS	E
<b>Advanced Research Methods</b>		5 ECTS	WAWA
<b>2</b>			
<b>IT Strategy</b>	5 ECTS	E	
<b>IT Governance and Compliance</b>	5 ECTS	E	
<b>IT Project Management</b>	5 ECTS	E	
<b>IT Service Management</b>	5 ECTS	E	
<b>Cyber Risk Assessment and Management</b>	5 ECTS	E	
<b>Leadership</b>	5 ECTS	E	
<b>3</b>			
<b>Seminar: Standards and Frameworks</b>	5 ECTS		WARE
<b>Agile Project Management</b>	5 ECTS		WACS
<b>Elective A + B</b>	20 ECTS		
<b>4</b>			
<b>Master Thesis &amp; Colloquium</b>	30 ECTS		WAMT & PC

## CHOOSE YOUR ELECTIVES

### Choose one elective from

#### “Electives A” list (60 ECTS):

- Applied Cyber Security and Data Protection
- Artificial Intelligence
- Big Data Applications
- Blockchain and Quantum Computing
- Change Management in Organizations
- Cloud Computing
- Communication and Negotiation
- Cyber Criminality
- Data Science and Analytics
- International and Intercultural Management
- Process Management with Scrum
- Project Management with PRINCE2®
- Salesforce Consultant Specialization
- Salesforce Developer Specialization

### Choose two electives from

#### “Electives B+C” list (120 ECTS):

- Applied Cyber Security and Data Protection
- Artificial Intelligence
- Big Data Applications
- Blockchain and Quantum Computing
- Change Management in Organizations
- Cloud Computing
- Communication and Negotiation
- Cyber Criminality
- Data Science and Analytics
- International and Intercultural Management
- Process Management with Scrum
- Project Management with PRINCE2®
- Salesforce Consultant Specialization
- Salesforce Developer Specialization

## ELECTIVES

### APPLIED CYBER SECURITY AND DATA PROTECTION

This specialisation was designed with your future career in mind. Its aim is to give a holistic understanding of how to manage information technology with security and data protection in mind.

You'll get in depth analysis of IT security protocols, cryptography and data protection principles. You'll get to experience some of the real problems that companies face when it comes to cyber security, and learn the different approaches that they can take.

In order to fully understand how to design information security management systems, you'll study closely the ISO/IEC 270xx security protocol standards, and how cryptography can be used to secure complex elements, such as internet protocols or blockchains.

### BLOCKCHAIN AND QUANTUM COMPUTING

Blockchain technology is becoming increasingly popular in many different fields, and technology professionals who understand how to work with it are now in high demand. In this module, you'll cover the foundations of this technology and its potential uses, such as BitCoin. You'll gain real world familiarity with important professional aspects, advantages and difficulties that relate to working with Blockchain.

In addition, you'll learn the basic principles behind quantum mechanics, and how they relate to quantum computer technology. Discover the common calculation models and mathematical concepts behind quantum computing, and test your skills by developing programmes in the Qiskit system framework.

### CLOUD COMPUTING

In this specialisation you will discuss how technological advancements such as AI, rely on large-scale data storage and computing power. You will learn that cloud computing provides this power in a scalable way and without significant upfront investment in hardware and software resources. You will also gain an overview on serverless computing and popular cloud offerings.

### CYBER CRIMINALITY

Crimes take place in the digital world through vulnerabilities in hardware and software, or application errors. This specialisation is about the prevention of criminal activities in the digital environment. You will learn how to quickly identify a threat and initiate appropriate reactions and countermeasures.

You will also learn how electronic evidence management works and how you can secure legally usable information. Finally, you learn how to obtain information on the current security situation from reports of the security authorities (such as BSI, Europol, NCA, FBI).

## CAREER OUTLOOK

IT is taking on an increasingly central role in companies. Companies today are faced with the diverse challenges of digitalisation and at the same time have to observe more and more regulatory requirements. This calls for specially trained managers who can master these tasks both professionally and technically. After completing your Master in Information Technology Management, you will know how to develop a successful IT strategy and manage your team to achieve the desired results. Therefore, excellent career prospects with lucrative promotion opportunities await you. For example, you can start out as a team leader for IT service management, IT portfolio manager or as a team leader for IT operations.

## ADMISSION

We try to keep admission as simple as possible at IU. To successfully enroll, there are just a few requirements we need you to prove.

### ADMISSION REQUIREMENTS FOR 120-ECTS

- Completed, undergraduate degree with 180 ECTS in the field of business **administration, economics**
- Your degree must be from a state or state-recognised higher education institution/university
- You must have achieved a final grade of at least "satisfactory" or Grade C equivalent in your previous undergraduate degree

### ADMISSION REQUIREMENTS FOR 60-ECTS

- Completed, undergraduate degree with 240 ECTS.
- Your degree must be from a state or state-recognised higher education institution/university
- You must have achieved a final grade of at least "satisfactory" or Grade C equivalent in your previous undergraduate degree
- Proof of at least one year's professional work experience completed prior to the start of study programme. Work experience must have been gained after completion of your undergraduate studies

### FURTHER ADMISSION OPPORTUNITIES

#### For the 60 ECTS programme:

Depending on your previous education, the following entry options are applicable for the **60-ECTS** Master's degree:

- undergraduate degree with 210 ECTS: you can bridge the gap of 30 ECTS with the proof of one year qualified work experience
- undergraduate degree with 180 ECTS: you can bridge the gap of 60 ECTS with the proof of two years qualified work experience

Recognition of knowledge and abilities acquired outside of higher education is possible in principle.

# 8 STEPS TO COMPLETE YOUR STUDIES

Is your undergraduate degree not in the required subject field for this programme's **120 ECTS points variation admission** requirements? You can still apply! You'll have to take 2 specific courses at the start of your studies, and pass them successfully in order to continue with your studies. That way, you don't have to take an entrance examination, and can prove your skills while earning ECTS points as part of your studies.

## WORK EXPERIENCE

For the 60 ECTS programme:

- Proof of at least one year's qualified work experience completed prior to the start of the study programme (the work experience must be gained after the completion of your undergraduate studies).
- Don't have a year's worth of qualified work experience? Don't worry! With the Scholarship Programme, you can start your studies right away, and gain your professional experience alongside your studies. You'll need to achieve the one year's worth of experience before you complete your Scholarship Programme.
- You can provide us a translation of your employment contract and your pay slip or you can ask your company to fill out this form in English, sign it, apply the company stamp and send it to us.

## SCHOLARSHIP PROGRAMME

Start in our scholarship programme as a participant with immediate access to 50% of your courses. Once admission and the courses are completed, you can finish your degree.

- To start a 120-ECTS degree, you will need a minimum of 180 ECTS credits from your previous studies.
- To start a 60-ECTS degree, you will need a minimum of 240 ECTS credits from your previous studies but can "bridge" up to 60 ECTS with 2 years of professional experience.

**Questions?** Speak to one of our study advisors, they will guide your through every step of the process.

## PROOF OF ENGLISH LANGUAGE SKILLS

We therefore ask for proof of your English language skills\*. If English is your native language or you graduated from an English-speaking school/university, you don't need to prove your English skills.

Accepted certifications:

- English Courses (complimentary when signing up with IU)\*\*
- TOEFL (min. 80 points) or
- IELTS (min. Level 6.0 out of 9 points) or
- Duolingo English test (min. 95 points) or
- Cambridge Certificate (min. B grade overall) or
- Equivalent proof

1

Register and apply online

2

Choose your course

3

Download your study scripts

4

Work independently with study scripts

5

Take part in Q&A sessions

6

Prepare for exams and take them either:

- directly online, or
- at an IU examination centre (remember to register in time).

7

Master thesis and colloquium

8

Complete your studies with certificate

\*Proof must be provided before the start of the study and must not be older than five years.

\*\*Please note that English Courses aren't accepted as a language certificate for on campus study programmes.