

UNIVERSITEIT TWENTE.



Master Business Information Technology

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Welcome to the Master Business Information Technology!




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Purpose of today

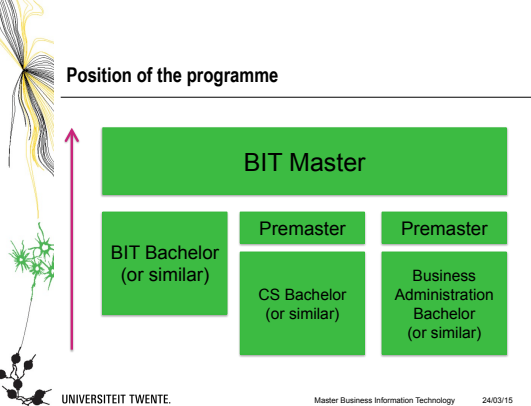
Give an **overview** of the BIT Master programme

- Master programme
 - Specialisations
 - Master projects (Research)
- After the study



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Position of the programme




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Business & IT: Why?

- Business and IT people are from different cultures, with different vocabularies, **concerns**, etc., creating a **business-IT gap**
- People are needed with know-how of **Business and IT**, who are therefore properly qualified to bridge the gap

→ The BIT professionals!



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<http://www.youtube.com/watch?v=hySGKbEEsyo>



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Vision

- Business requirements are getting increasingly **demanding** and **change** constantly
- A large amount of **data** is coming from **sensors** and an increasing amount of **components** offer **business services**
- Increasing amount of **related and complex** business processes
- Integration of **different disciplines**

And don't forget the people involved!

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Master Business & Information Technology

- 2-year programme
- International (in English)
- Current population: 55 students (8 international students)
- Supported by **research groups** in the areas of **Business Administration** and **Computer Science**
- Programme consists of a set of **core courses** followed by **three alternative specialisations**

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BIT Master specialisations

Based on the roles a BIT professional may play

- Enterprise Architecture** alignment of **strategy, business processes** and **IT architecture** (enterprise architect)
- IT Management** IT strategies to support **business processes** and **services** (IT manager)
- Business Analytics** application of **business intelligence** and **data analysis** to support business decisions (business analyst, or even (big) data scientist)

New

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Distribution of topics (courses) over specialisations

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Programme in short

	Course code	Course name	
Core	192350200	E-Strategizing	
	192376500	Business Process Integration Lab	
	201400277	Enterprise Architecture	
	192320820	Design Science Methodology	
	192340070	Computer Support Cooperative Work	
Enterprise Architecture	192376000	Business Case Development for IT-Projects	
	191863960	Foundation of IS	
	201100051	Information Services	
	192330301	Specification of Information Systems	
	192320111	Architecture of Information Systems	
IT Management	192320501	E-commerce	
	192360021	ICT Management	
	192340101	Implementation of IT in Organisations	
	192340041	Software Management	
Business Analytics	191820210	Simulation	
	201200044	Managing Big Data	
	191800770	Empirical Research & Data Analysis	
	201400174	Data Science	

Plus electives, Research and Master project

Total of 120 EC

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Research

Cornerstones of the programme


- Industrial Engineering and Business Information Systems (IEBIS)** group of the Faculty of Behavioural, Management and Social sciences (BMS)
- Services, Cybersecurity and Safety (SCS)** group and **Databases (DB)** group of the Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS)

- These groups are active in research in the BIT-related areas applied to (amongst others) transportation, supply chain, logistics, healthcare and lifestyle and disaster management
- The groups have also strong collaboration with the industry

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Requested attitude

- You are expected to be **creative, curious** and to think **out-of-the-box**
- You are expected to **read and search** a lot
- Master activities (course and projects) have been **designed** to teach you how to do **Research**
- Teaching process leans strongly on projects
- In your Master project you are expected to strive for **novel contributions** to theory and practice



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IGI Global's Fourth Annual Excellence in Research Journal Awards

IGI Global is proud to present the 2010 Best Article Award to
Luís Ferreira Pires (University of Twente, The Netherlands)
Arjen van Oostrum (University of Twente, The Netherlands)
Fons Wijnhoven (University of Twente, The Netherlands and Wilhelms University of Muenster, Germany)

for the peer-reviewed paper
 "Service Registry Design: An Information Service Approach"
 appearing in the
International Journal of Information Systems in the Service Sector, 2(4)

2010

BIT Master student



Some Master projects

- Jeffrey van den Brande (2013) The value of ontologies for developing semantic standards
- Joris van Soest (2013) Designing a performance dashboard at Sigmax
- Allard Brand (2013) Improving interoperability between electric mobility and the electricity system - Towards a reference architecture for charging electric vehicles
- Berend Alberts (2013) Technology appropriation revisited - Mediation theory as a new philosophy of technology for information systems research
- Ashiful Alam (2012) Business information management and the cloud
- Jacco Roest (2014) The relationship between enterprise Architecture, Business Complexity, and Business Performance



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For after your Master study

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Twente Graduate School (TGS)

- Outstanding research environment 'High tech - Human touch'
- High quality **structured supervision** and **personal development**
- Integrated Master's and PhD programmes: **make a head start!**
- Tailor-made education** in the PhD phase
 - Advanced courses in the field of expertise
 - Academic and career development skills
- For more information see: <http://www.utwente.nl/tgs>

TGS programme related to Business Information Technology

- Services Science (CTIT)

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Jobs after the study

Typical positions

- Information specialist
- Information systems designer
- Consultant

With some more experience


- Information strategist
- ICT-manager
- Project leader in automation projects
- CIO

Research and Academia

- PhD position, lecturer

Average of 0 months waiting time for find a job after the study!

Researcher Designer Entrepreneur



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Application and admission

UT student

- Contact the Education programme coordinator for questions

Non-UT student

- Register and apply through the UT Master site <http://www.utwente.nl/master/>
- **When?**
- Check the page <http://www.utwente.nl/en/education/master/admission-requirements/application-deadlines/> for the deadlines that apply to you

Premaster programmes

HBO-bachelors Computer Science

Study load: 30 EC

Contents

- Mathematics: Calculus, Linear Algebra, Probability & Statistics, Discrete Mathematics
- Business Administration: Organization Theory and Design, Strategy & Marketing, Accounting & Finance

Premaster programmes

Academic bachelors*

Students with **Computer Science background** (15 EC)

- Module "Finance for Engineers" (September)
- Module "From Product Design to Online Business" (February)

Students with Business Administration background (30 EC)

- Modules "Intro BIT" and "Software Systems" (September)
- Module "Data & Information" + programming course (February)

* May vary depending on the background of the student

More information?

BIT Master student for a day ('meeloopdagen')

- English site <http://www.utwente.nl/en/education/master/contact/student-for-a-day/>
- Dutch site <http://www.utwente.nl/onderwijs/master/contact/meeloopdagen/>

Final words

- Participation, dedication, enthusiasm
- Take the most out of this opportunity to study!
- Not only follow the courses, but **develop yourself**
- Be **pro-active**, look for **challenges**
- **Constructive critical attitude**
→ Keep our teachers sharp!



See you!



We hope to welcome you soon
at the Master Business
Information Technology!