MSc IB Information Management & Business Intelligence (IMBI)

Maastricht University, School of Business and Economics



Dr. Mark Vluggen (track coordinator)

- Senior lecturer information management
- Director of bachelor programmes at SBE
- Vice-chair department Accounting & Information Management
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Education

- Master: Cases in MIS (EBC4038)
- Postgraduate: EMFC (Maastricht), EMMA (Paramaribo, Suriname)

Research

- Enterprise resource planning (ERP), Online reviews, Technology Acceptance
- Member editorial board International Journal of Accounting Information Systems
- Track co-chair at European Conference on Information Systems

Today's Agenda

1

IT & Business

2

Why this programme?

3

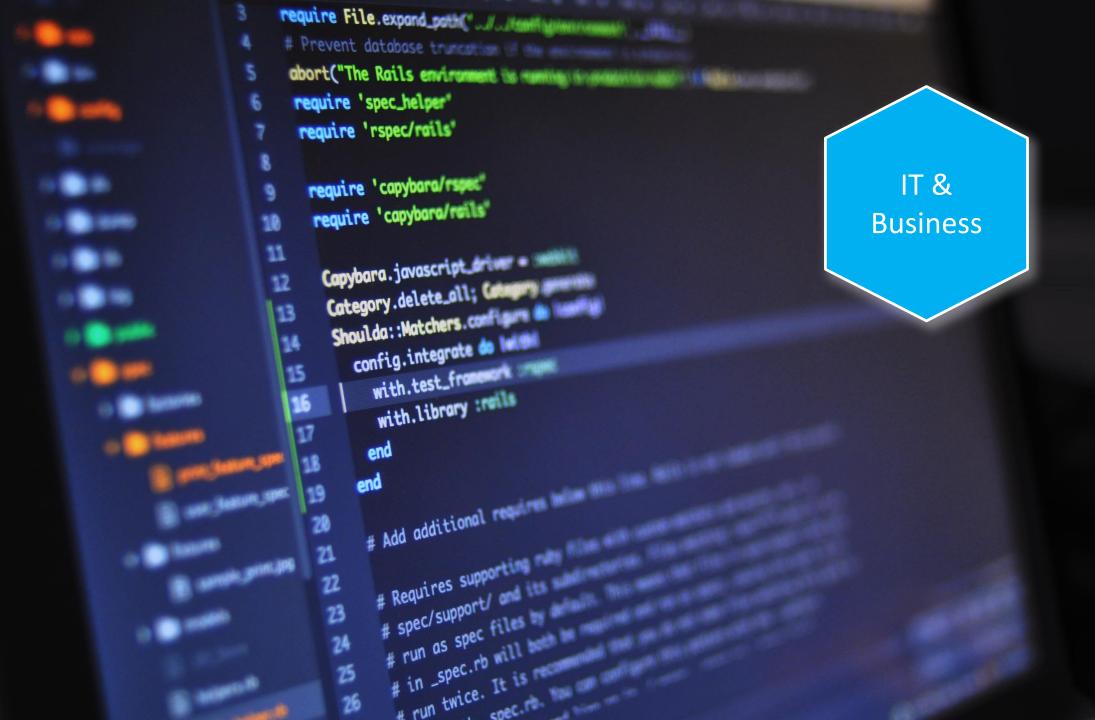
Our programme

4

Student Profile

5

What does the future hold?











Blockchain in the media

IT Predictions

"I think there is a world market for maybe five computers."

(Thomas Watson, chairman of IBM, 1943)

"There is no reason anyone would want a computer in their home."

(Ken Olson, founder of Digital Equipment Corp., 1977)

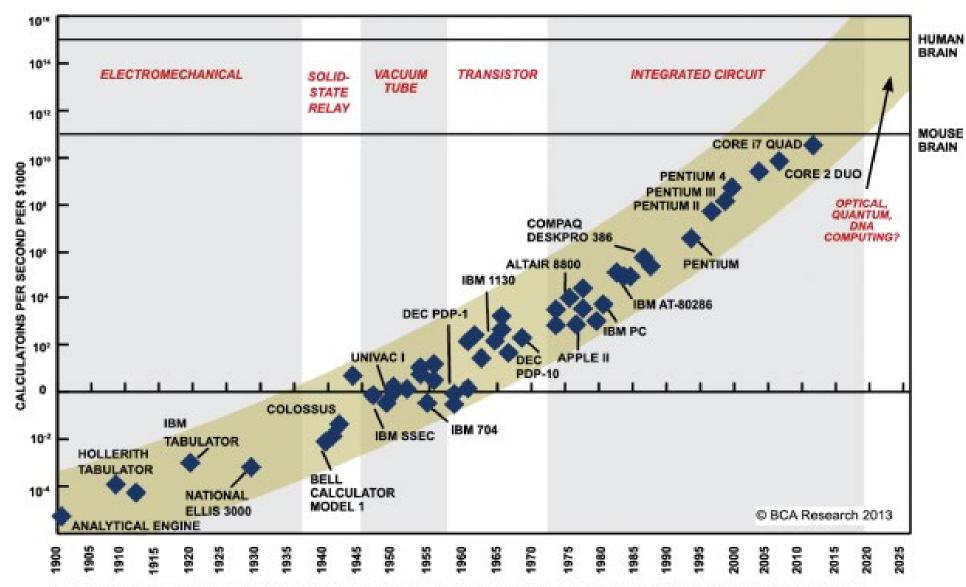
"I predict the Internet will soon go spectacularly supernova and in 1996 catastrophically collapse."

(Robert Metcalfe, founder of 3Com, 1995).

"I see little commercial potential for the Internet for at least ten years."

(Bill Gates, founder of Microsoft, 1994)

Moore's Law



SOURCE: RAY KURZWEIL, "THE SINGULARITY IS NEAR: WHEN HUMANS TRANSCEND BIOLOGY", P.67, THE VIKING PRESS, 2006. DATAPOINTS BETWEEN 2000 AND 2012 REPRESENT BCA ESTIMATES.



Mainframe (80's) versus smartphone



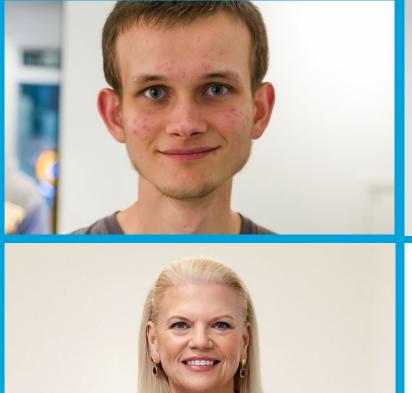
Ease of Use

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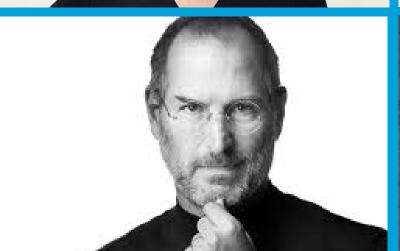




Some "Geeks"













Get Involved... or accept the consequences

- IT investments not aligned with business strategy
- Prioritization of IT projects missing
- Lack of standardisation in IT-applications
- No return on IT investments
- 'Blaming & shaming'

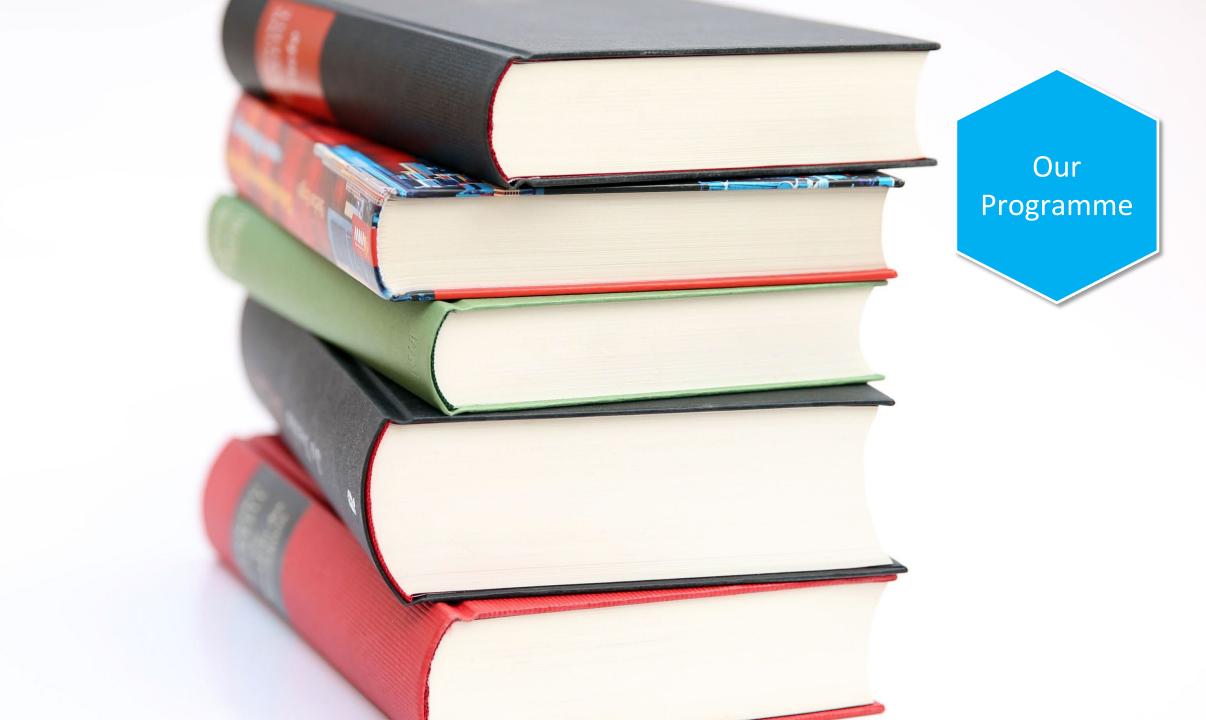


Why should you choose Information Management & Business Intelligence?

- Business today cannot function efficiently and effectively without information systems
- Business today needs efficient and fully automated decision making tools
- There are unlimited possibilities for information systems & data analytics in organisations

Information Management vs Computer Science

	IM	CS
Focus	Organization	Software
Objective	More efficient or effective business	Reliable computer program
Core Task	Determine business requirements for information systems	Deliver information systems to meet defined requirements
Theoretical vs. Applied	Balanced	Applied
Typical Starting Job Title	Business Systems Analyst	Application Programmer
University Home	Business Schools	Science College, Technical Universities



From information to business solutions



- ERP/MRP
- Review systems
- Social & professional networks

Distilled information











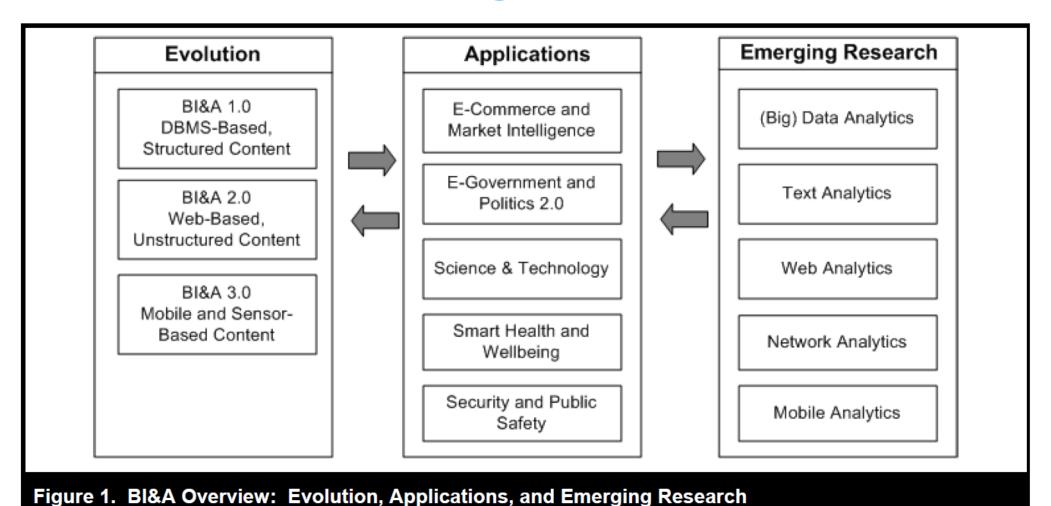


Business Intelligence

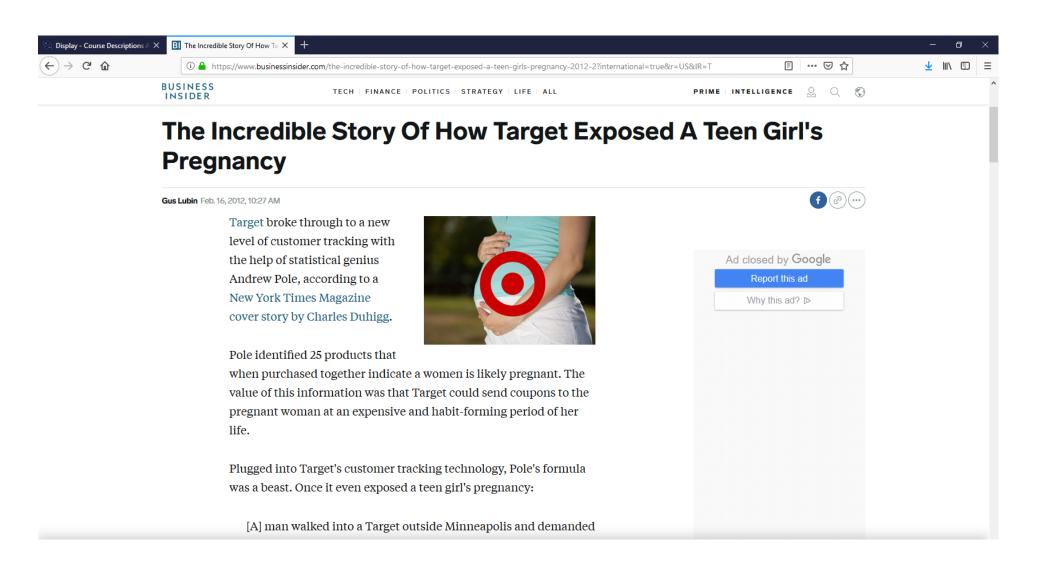
Information Management

- The Cost of IT: Managing an IT Budget
- The Value of IT: How to Measure It?
- Setting Investment Priorities
 - Innovation: Emerging Technologies (e.g. internet of things, cloud computing, gamification)
- Project management
 - Change management issues
 - The Runaway Project
- Vendor Partnering (e.g. cloud computing, outsourcing)
- Managing Outsourcing Contracts
- Managing the Applications Portfolio

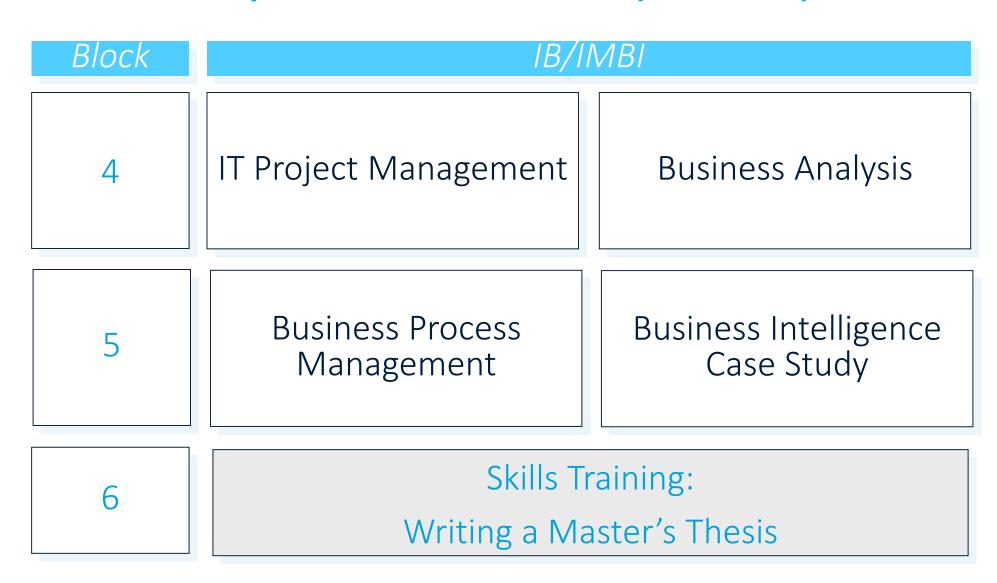
& ... Business Intelligence



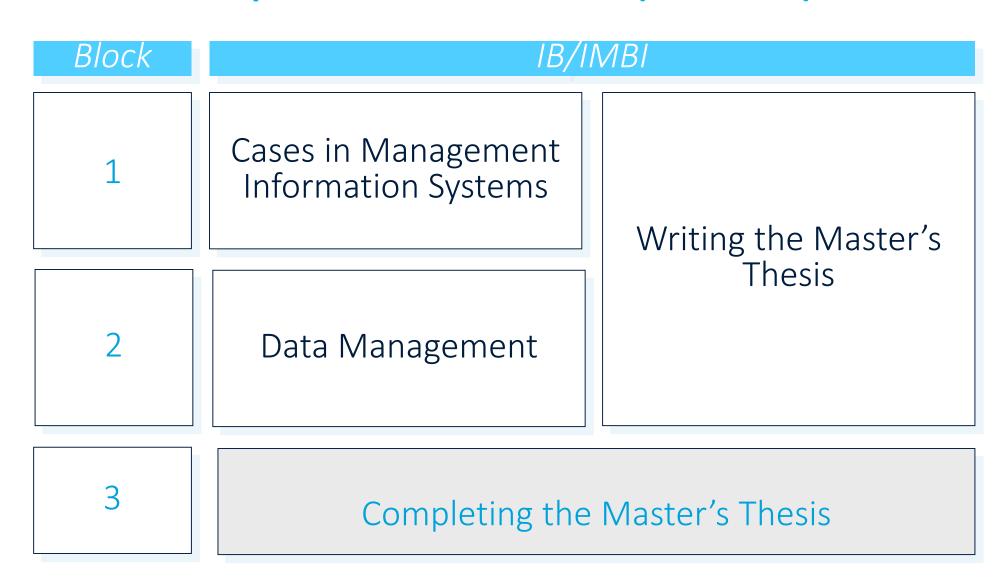
Ethical issues



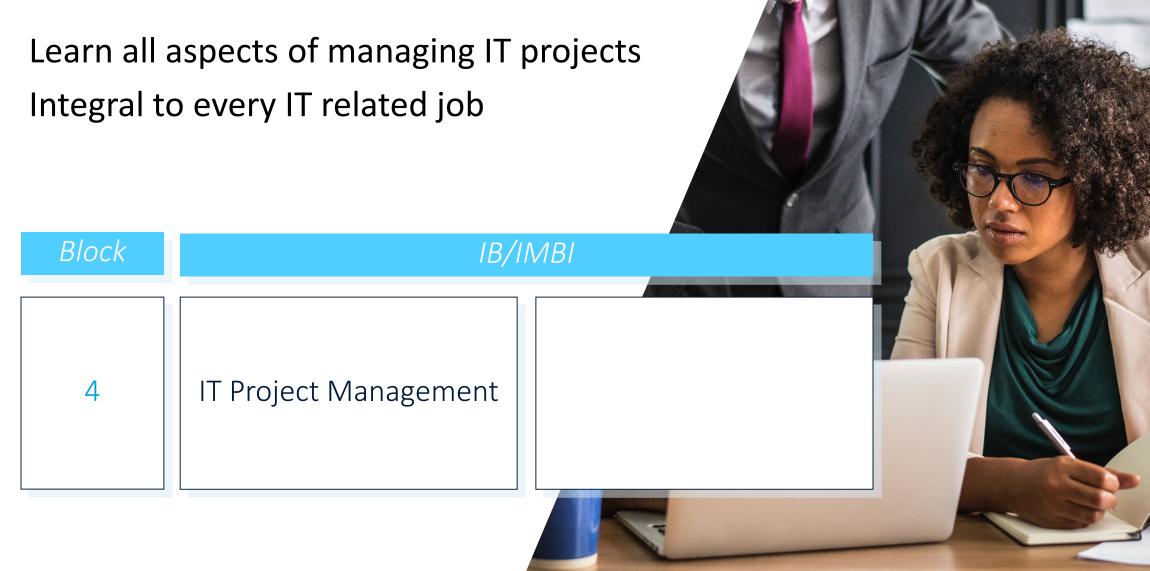
What is the specialisation structure? (Start: FEB)



What is the specialisation structure? (Start: FEB)



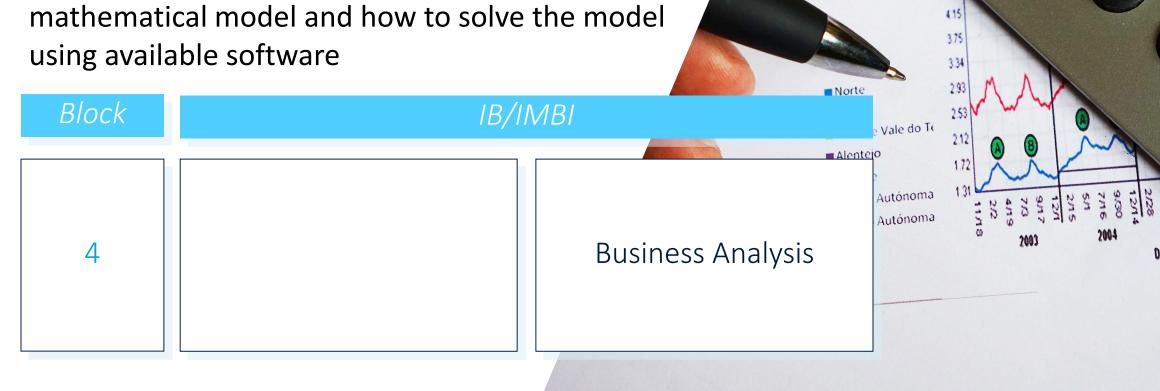
IT Project Management



Business Analysis

Learn modern forecasting techniques and the basics of time series analysis

Learn how to turn a business problems into a mathematical model and how to solve the model using available software





Learn how to tackle real-life business problems, e.g.,

- Capacity planning in a hospital
- Implementing quality control in a hotel
- Customer segmentation at a bank

Block Business Intelligence Case Study





- Understand how information systems and technologies can be used to support operational and managerial business processes
- Understand best practice guidelines for BPMN (Business Process Modeling and Notation)
- Use BPMN to analyze, improve, and automate business processes in a global setting



Writing the Master's thesis

Understand the basic requirements of a master's thesis

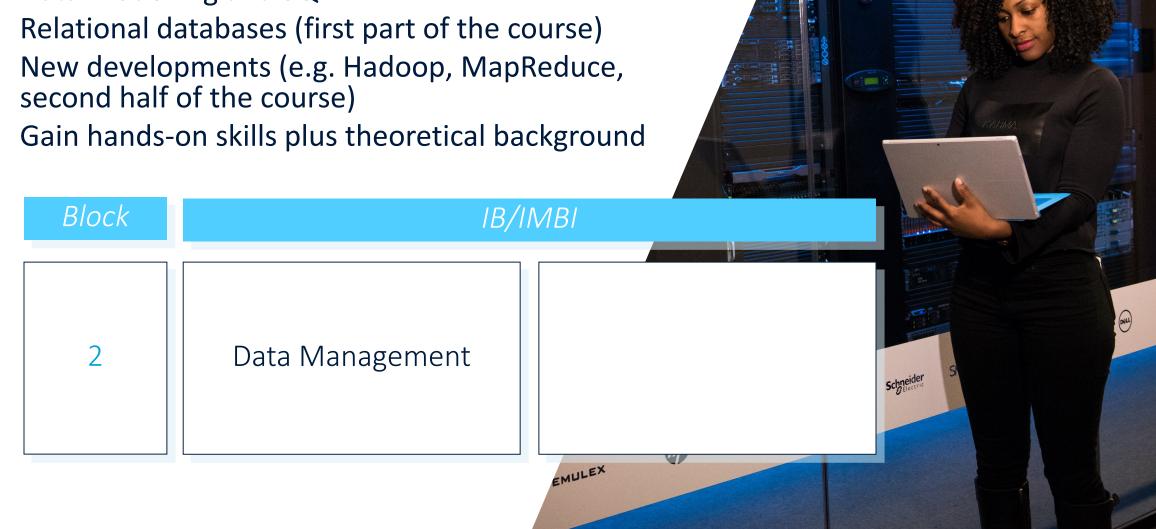
master's thesis

Develop a high quality research proposal for a Apply for thesis supervision Block IB/IMBI Skills Training: Writing a Master's Thesis

Cases in Management Information Systems Discuss how businesses can use information systems to improve their performance Use company cases and academic literature Block IB/IMBI Cases in Management Information Systems

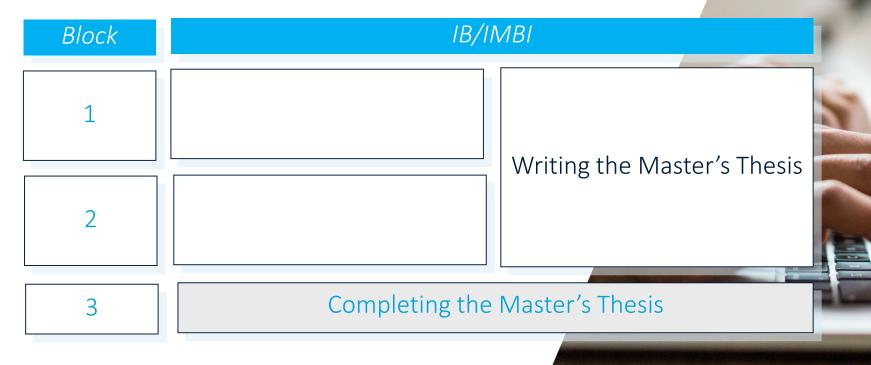


- Data Modelling and SQL
- second half of the course)



Master's Thesis

- In-depth study of an IM/BI problem
 - Academic relevance
 - Managerial relevance
 - Case study/internship possibilities
- Scientific study

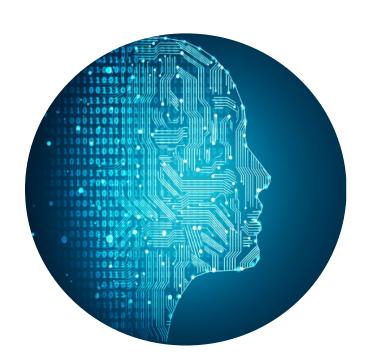




Have an affinity for quantitative reasoning, IT and its potential for organisations

Be able to think in a logical and structured way

Have the desire to study and work in an international environment







*Programming / technical / sophisticated mathematical skills are not necessary



Job Prospects are Excellent

- Typical starting positions of IM students
 - IT Consultant (e.g. Accenture, IBM Consulting, PwC)
 - Data analyst (e.g. Henkel)
 - Systems Analyst (e.g Shell, ING Bank, Cisco Systems)
 - Project Manager (e.g. ABN AMRO)
 - IT vendors (e.g. SAP, Google)
 - Startup (e.g. SpamExperts, i2 Solutions)
- Further down the career path
 - Manager of the IT function in an organisation
 - Chief Information (Knowledge)
 Officer

Questions?

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Or visit us at the information market in Mensa

