

# M.Sc. ICT in Business

10-October-2014

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# Trends for IT Careers

- IT career opportunities are increasingly influenced due to outsourcing
- IT investment success depends on much more than technology
- IT is rapidly evolving, skills to separate fact from hype are in short supply
- Big Data is changing business models

# ICTIB Philosophy

Students will discover IT-Business dependencies

- Existing business: performance improvement
  - Managing IT projects
  - Managing the IT department / function
  - Managing IT in the organization (IT Governance)
- New business: developing opportunities
  - Innovation
  - Entrepreneurship
- Research orientation, applied to real life cases
- Many contacts with industry and public sector
- Lecturers: mix of academics & professionals

# Program Outline

Overall 2 years: 6 blocks of 7 weeks, and a 6 months thesis project.

Courses cover business fundamentals, core ICT & Business topics and electives.

Combination of (guest)lectures, case work, lab work, and student presentations. Many activities are based on team work.

A number of company visits & assignments to supplement and enrich the programme.

# Programme Detail

## Business Fundamentals (foundation courses)

- Strategy, Marketing & Communication, Corporate Finance, Financial Accounting, Behavioural Decision Making, Organizing, Managing Innovation, Entrepreneurship, CIO Business Game.

## Core courses ICT and Business (Presumes a bachelor degree Computer Science)

- ICT Architecture, Software Engineering, ICT-enabled Business Process Innovation, ICT Strategy and Planning, System's Development & Project Management.

## Electives (examples)

- Lean Six Sigma, Business Intelligence, Legal aspects of ICT,, virtual organizations, and data warehousing. Courses offered by Erasmus University, Rotterdam

# M.Sc. Thesis Projects

- IT architecture redesign for Citi-bank Singapore
- Mapping the ICT Security Risks in the IAAS Cloud
- Global software development India-Netherlands
- Political Pressures and Programme Management
- Advertising in Computer Games
- Is Outsourcing Killing or Kindling Innovation?
- Benefits and Change Management



Ministerie van Financiën



# Using IT in the course

- Lecture material: slides, reading material, references, assignments (Blackboard)
- Discussions (LinkedIn, Google groups)
- Collaborative workspace (Dropbox)
- Software development tools / facilities
- Open Course Ware

# Multicultural Learning Environment



- Bulgaria
- Butan
- China
- Colombia
- Germany
- Hungary
- Indonesia
- Mexico
- Romania
- The Netherlands
- The Philippines
- United Kingdom



# Attitude

- Be driven
- Have Initiative
- Self-Motivation
- Find and develop your talents

**2** heads think better than **1**

- Learn from your peers' experience
- Network matters

Speaking Is Silver, Listening Is Gold

# Business Challenges Competition

Architecture



# Business

Strictly4Business Competition



# Summary

- A unique programme of business, organisational and IT courses
- An very international group of students
- Research rigor with business focus
- Strongly growing (class 2011: 31 , class 2014: 45)

**Synergies: The program combines all topics of an MBA management degree with a high level IT degree**

### **Field of Expertise**

- IT (SOA) Architecture
- Business Architecture
- Business IT Alignment
- IT Governance
- Innovation Management
- Change Management
- Cloud / App's
- Social Networking
- Big Data

### **Job Roles**

- Business - IT Consultant
- Business Architect
- Chief Information Officer (CIO)
- IT manager
- IT project manager
- IT architect
- Business Analyst

# Graduates employed at:



ABN-AMRO



ERNST & YOUNG



Deloitte.



山东大学



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**Introduction**  
LIACS is the computer science institute of Leiden University, engaged in both research and education in the area of computer science, including bioinformatics and innovation management. See our [Research](#) section for more information about our research clusters, and our [Education](#) section for the broad spectrum of bachelor and master programmes that LIACS offers.

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**Elsevier Best Programmes 2011**  
The Master Computer Science of Leiden University is chosen by the students as best Computer Science programme in Elsevier's opinion poll "De Beste Studie 2011"  
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**Prospective students**

- ▶ Bachelor Informatica
- ▶ Dubbele bachelors
- ▶ Informatica & Economie
- ▶ Bioinformatics
- ▶ Master Computer Science
- ▶ Master ICT in Business
- ▶ Master Media Technology
- ▶ Graduate School

**Research clusters**

- ▶ Algorithms
- ▶ Computer Systems
- ▶ Foundations of Software Technology (FaST)
- ▶ Imagery & Media
- ▶ Technology & Innovation Management (TIM)

**Upcoming events**

- ▶ **Master Day Media Technology**  
7 May 2012, 19:00 - 20:00
- ▶ **Master Day ICT in Business**  
9 May 2012, 19:00 - 20:00

**DIRECTLY TO:**

- ▶ LIACS Information Screen
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Education

Select:  
Master ICT in  
Business

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