

MANAGEMENT INFORMATION SYSTEMS (MIS) (37C00100, 6 ECTS)

SYLLABUS

Version 4 (23.9.2016)

Instructor's contact information	Course information
Johanna Bragge, PhD, Docent johanna.bragge@aalto.fi Chydenia, Room H5.10 Office Hours after lectures in Otaniemi U-wing and also on agreement via email http://people.aalto.fi/johanna_bragge	BSc level core course in Business Technology 2016, Period I U8/U270 Lecture Hall at Otakaari 1, Otaniemi Language of Instruction: English https://mycourses.aalto.fi/course/view.php?id=12538 Teaching Assistants: Maryam Roshan and Sanna Tiilikainen (firstname.surname@aalto.fi)

1. OVERVIEW

Information technology and data have changed how businesses operate and succeed in today's global economy. Organizations can now use IT and data to transform themselves and achieve a tremendous competitive advantage. On the other hand, those organizations that are not mastering these assets might not exist in the near future. This course highlights how new technologies and data are changing the current business environment and what effect it has on today's students. Contents of the course:

1. Introduction to information systems (IS) and their impact on organizations and the society
2. Organizational strategy, competitive advantage, strategic IS, business-IT alignment
3. Data and knowledge management, big data
4. Telecommunications and networking
5. Business intelligence and analytics
6. Ethics and privacy
7. Information security
8. Social computing in business, crowdsourcing
9. E-business and e-commerce
10. Wireless, mobile computing and mobile commerce
11. IS within the organization / Enterprise applications
12. Extending the organization to customers / Customer Relationship Management systems
13. Extending the organization along the supply chain / Supply Chain Management systems
14. Acquiring IS and applications.

2. PREREQUISITES

No prerequisites.

3. LEARNING OUTCOMES

The course addresses the major principles of Management Information Systems (MIS) in order to prepare managers to understand the role of information technology and data in the digital economy. This course aims to give students the starters what they need to succeed in the current digital economy.

4. ASSESSMENT, GRADING AND EXAM FEEDBACK

1. Lectures 24 h
2. Assignments integrated to the lectures (40% of the grade)
3. Exam (60% of the grade). Feedback from the exam will be given via MyCourses news (generally) and via personal appointments to be agreed as needed.

5. PRELIMINARY SCHEDULE

#	Date	Topic	Assignment Due Dates
1	Sept 13	Introduction to the MIS course and IS in the 2010's / Bragge	15.9.2016
2	Sept 15	Cloud computing in enterprise IT / CEO Petri Aukia, Codento, http://twitter.com/aukia	Other due dates to be
3	Sept 20	Service Design: Process and Methods, Managing Director Teemu Uotila and UX Designer Jussi Ahola, Vincit Helsinki	announced (1-2 weekly)
4	Sept 26 at 16-18	Data management and governance / Director, Actionable Insight Jerry Jalassola, Silli Solutions	
5	Sept 27	Big data and the Internet of Things (IoT) / Analytics Architect Jukka Ruponen, IBM Finland	
6	Sept 29	Collaborative technologies and knowledge work / Bragge and Doctoral candidate Sanna Tiilikainen, Aalto BIZ / ISS	
7	Oct 4	Cognitive computing and IBM Watson / Software Client Architect Jouko Poutanen, IBM Finland	
8	Oct 6	How digital transformation impacts enterprises? / Chief Transformation Officer, Board Professional Elina Piispanen, Sanoma Media Finland	
9	Oct 11	Business Performance Management in eCommerce / Chief Digital Officer Kari Härkönen, Marimekko	
10	Oct 13	Case Enterprise Social – how culture fucks up good plans: / Consultants Milja Nohynek, Erno Pappinen & Pauli Kongas, Digital Illustrated	
11	Oct 18	ERP and business applications / CTO and Head of New Business Development Glen Koskela, Fujitsu Nordic	
12	Oct 20	Text/web/data mining and course wrap-up / Bragge	
	Oct 26	EXAM at 9-12	
		RETAKE EXAMS December 19, 2016 and February 10, 2017	

6. ASSIGNMENTS

The assignments are done independently between the lecture sessions. Some assignments can be done in small groups of 2-3 students (this exception is mentioned separately in the assignment instructions). The assignments consist of a variety of tasks: article reviews, internet studies, coding exercise with codecademy.com, data visualization tasks, research profiling study using library's literature databases, learning diaries of visiting lectures, etc.

7. COURSE BOOK

Rainer, Kelly R., Jr., Prince, Brad and Watson, Hugh (2013), Management Information Systems: Moving Business Forward, 2nd edition, Wiley, ISBN: 978-1-118-44359-0 (Student companion site: <http://bcs.wiley.com/he-bcs/Books?action=index&itemId=1118443594&bcsId=7618>)

OR

Turban, Efraim and Volonino, Linda. (2012) Information technology management: international student version / ISBN 9781118092255 (Student companion site: <http://bcs.wiley.com/he-bcs/Books?action=index&itemId=1118092252&bcsId=6840>)

8. COURSE WORKLOAD

Classroom hours	24h
Class preparation	36h
Assignments	64h
Preparing for exams and exam	36h
Total	160h (6 op)

9. ETHICAL RULES

Aalto University Code of Academic Integrity and Handling Violations Thereof

See <https://into.aalto.fi/pages/viewpage.action?pageId=3772443>

10. OTHER ISSUES

- Registration to course and to exams: Via WebOodi
- Course policies: Due to the large amount of students and assignments in the course, the assignment deadlines are strict. Turnitin plagiarism software will be used for text-based assignments.