

MANAGEMENT INFORMATION SYSTEMS (MIS)

(37C00100, 6 ECTS)

SYLLABUS

Version 2 (10.09.2017)

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 2017, Period I U8/U270 Lecture Hall at Otakaari 1, Otaniemi Language of Instruction: English https://mycourses.aalto.fi/course/view.php?id=16408 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. The course addresses the major principles of Management Information Systems (MIS) in order to prepare managers to understand the strategic role of information technology and data in the digital economy. This course aims to give students what they need to succeed in the current digital economy. Contents of the course:

- 1: Information Systems and the Role of General and Functional Managers
- 2: Information Systems Defined
- 3: Organizational Information Systems and Their Impact
- 4: The Changing Competitive Environment
- 5: Electronic Commerce: New Ways of Doing Business
- 6: Strategic Information Systems Planning
- 7: Value Creation and Strategic Information Systems
- 8: Value Creation with Information Systems
- 9: Appropriating IT-Enabled Value Over Time
- 10: Funding and Governance of Information Systems
- 11: Creating Information Systems
- 12: Information Systems Trends
- 13: Security, Privacy, and Ethics

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 12	Introduction to the MIS course and Chapters 1-2 / Bragge	14.9.2017
2	Monday Sept 18 at 10-12	The key role of organizational culture in digitalization initiatives / Consultants Milja Nohynek & Pauli Kongas, Digital Illustrated	Other due dates to be announced
3	Sept 19	ERP and business applications / CTO and Head of New Business Development Glen Koskela, Fujitsu Nordic	(1-2 weekly)
4	Sept 21	Cloud computing in enterprise IT / CEO Petri Aukia, Codento, http://twitter.com/aukia	
5	Sept 26	Big data, Internet of Things (IoT), Artificial Intelligence, Cognitive Computing and IBM Watson / Analytics Architect Jukka Ruponen and Software Client Architect Jouko Poutanen, IBM Finland	
6	Sept 28	Business Performance Management in eCommerce / Chief Digital Officer Kari Härkönen, Marimekko	
7	Oct 3	Collaborative technologies and knowledge work / Bragge and Doctoral candidate Sanna Tiilikainen, Aalto BIZ / ISS	
8	Oct 5	How digital transformation impacts enterprises? / Chief Transformation Officer, Board Professional Elina Piispanen, Sanoma Media Finland	
9	Oct 10	Information Systems Development, Principal Investigator, PhD Antti Salovaara, University of Helsinki	
10	Oct 12	Service Design: Process and Methods, Managing Director Teemu Uotila and UX Designer Jussi Ahola, Vincit Helsinki	
11	Oct 17	IT Security and Privacy / Mikko Karikyö, Head of Ericsson PSIRT (Product Security Incident Response Team) and Dario Casella, Privacy Officer, Ericsson Finland	
12	Oct 19	Text/web/data mining and course wrap-up / Bragge	
	Oct 25	EXAM at 9-12	

#	Date	Topic	Assignment Due Dates
		RETAKE EXAMS December 18, 2017 and February 09, 2018	

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

Piccoli, Gabriele and Pigni, Federico (2017) INFORMATION SYSTEMS FOR MANAGERS **without** Cases, Edition 3.1, ISBN: 978-1-943153-07-7 (paperback), 978-1-943153-06-0 (eTextbook) <http://prospectpressvt.com/titles/piccoli-3e/>
 Paperback: [Availability](#) in library.

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.