

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

## SYLLABUS

Version 2 (updated on 7.8.2020)

Instructor's contact information	Course information
Post-doctoral researcher Sanna Tiilikainen <a href="mailto:sanna.tiilikainen@aalto.fi">sanna.tiilikainen@aalto.fi</a> Office Hours on agreement via email <a href="https://people.aalto.fi/sanna.tiilikainen">https://people.aalto.fi/sanna.tiilikainen</a>  Teaching Assistants: <a href="mailto:laura.k.nikola@aalto.fi">laura.k.nikola@aalto.fi</a> and <a href="mailto:soyoung.kimjuustovaara@aalto.fi">soyoung.kimjuustovaara@aalto.fi</a>  <i>Address general course inquiries to Sanna Tiilikainen</i>	BSc level core course in <i>Information and Service Management (ISM)</i> program at Aalto BIZ Fall 2020, Period I Online course <i>Note: The course is an online version of the MIS course lectured in Springs by PhD Johanna Bragge.</i> Language of Instruction: English MyCourses website: <a href="https://mycourses.aalto.fi/course/view.php?id=27647">https://mycourses.aalto.fi/course/view.php?id=27647</a>

### 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. Digital 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. Recorded lectures 24 h, possibility to gain **20 points** from quizzes to compensate 50% of the exam
2. Assignments integrated to the lecture topics (**60%** of the grade)
3. Exam (**40%** of the grade, of which half can be compensated by answering the lecture video quizzes).

## 5. SCHEDULE 7.9. – 19.10.2020

#	Date	Topic	Assign. DL's
1	Video lecture	<b>Introduction to the MIS course and Chapters 1-2</b> / Senior University Lecturer Johanna Bragge, Aalto BIZ, ISM	<b>10.09.2020</b>
2	Video lecture	<b>Knowledge work</b> / Senior Univ. Lecturer, Antti Salovaara, Aalto SCI and <b>Collaborative IS</b> / Johanna Bragge, Aalto BIZ, ISM	<i>Other deadlines</i>
3	Video lecture	<b>Gamification at work</b> / CEO Jukka Koskenkanto, Happit / Cloudriven	<i>are listed at MyCourses / Assignments</i>
4	Video lecture	<b>Service Design: Process and Methods</b> , CEO Teemu Uotila and Experience Designer Jan Nikander, Vincit Helsinki	
5	Video lecture	<b>Organizational change in the digitalization era—how to bring myth to life?</b> / Consultants Milja Nohynek & Karoliina Kettukari, Digital Illustrated	
6	Video lecture	<b>Big data, Artificial Intelligence and Ethical AI</b> / Analytics Architect Jukka Ruponen, IBM Finland	
7	Video lecture	<b>ERP and business applications</b> / CTO Glen Koskela, Retail & Hospitality EMEIA, Fujitsu	
8	Video lecture	<b>Enterprise blockchain</b> / CEO Petri Aukia, Codento, <a href="http://twitter.com/aukia">http://twitter.com/aukia</a>	
9	Video lecture	<b>Experiences of digital transformation in large companies and the growing impact of data in businesses</b> / Board Professional and Angel Investor Elina Piispanen, Telko, SitoWise & Viria	
10	Video lecture	<b>IT Security and Privacy</b> / Mikko Karikytö, Head of Ericsson Network Security, Ericsson Finland	
11	Video lecture	<b>Dark side of IT</b> / Post-doctoral researcher Sanna Tiilikainen, Aalto ARTS	
12	Video lecture	<b>Text/web/data mining and hints for the exam</b> / Johanna Bragge, Aalto BIZ, ISM	
	<b>19.10.</b>	EXAM at 09.00-12.00 (3 hours) via <b>MyCourses</b> (course page)	
	15.12.	RETAKE EXAM at 13.00-16.00 (3 hours) via MyCourses (course page)	

## 6. ASSIGNMENTS

Most assignments are done independently by the students. One assignment is done in small groups of 5 students (this exception is mentioned separately in the assignment instructions), and another is a group brainstorming exercise but does not require team coordination between students, just obeying the schedule of the tasks in the brainstorming. The assignments consist of a variety of tasks: article reviews, online brainstorming, coding exercise with codecademy.com, team working, customer journey mapping, data analytics tasks, data visualization tasks, research profiling study using library's literature databases, etc.

## 7. COURSE BOOK

Piccoli, G. and Pigni, F. (2018): Information Systems for Managers **Without Cases**, Edition 4.0  
ISBN: 978-1-943153-51-0

<https://www.prospectpressvt.com/textbooks/piccoli-information-systems-for-managers-4-0>

Or the previous 3.1 version

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) <https://www.prospectpressvt.com/textbooks/piccoli-information-systems-for-managers-4-0#older>

Paperback: [Availability](#) in library (4<sup>th</sup> edition: 7 books, and 3<sup>rd</sup> edition: 14 books).

## 8. COURSE WORKLOAD

Classroom hours and/or video lectures	24h (24 h video lectures)
Class/video lecture preparation	20h
Assignments	86h
Preparing for exams and exam	30h
Total	160h (6 op)

## 9. ETHICAL RULES

Aalto University Code of Academic Integrity and Handling Violations Thereof

See <https://into.aalto.fi/display/ensaannot/Aalto+University+Code+of+Academic+Integrity+and+Handling+Violations+Thereof>

## 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 – however, you may submit your assignment late but there is a sanction which increases the more late you submit (-1 point per every 24 hours late). Turnitin plagiarism software will be used for text-based assignments.