

RTU Course "Management Information Systems"**22000 Faculty of Engineering Economics and Management****General data**

Code	IV0056
Course title	Management Information Systems
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Leonards Budņiks
Volume of the course: parts and credits points	1 part, 4.0 credits
Language of instruction	LV, EN
Annotation	Study course builds understanding of history and future tendencies of modern information systems (IS). During the study course students will learn development principles of IS, will understand the role of information technologies in IS, will be able to participate in a discussion about future of IS and IT. Study course covers topics on use of IS and IT in business and society. Using examples students will understand principles of implementation of IS in a company, will be able to identify main security risks for IS and IT.
Goals and objectives of the course in terms of competences and skills	The aim of the study course is to provide theoretical knowledge about the use of IS and IT in business and society. Objectives of the study course: - to develop an understanding of the history of development of IS and IT, and the ability to discuss the factors influencing it; - to develop an understanding of the most commonly used IS and their business use; - to develop skills to choose the appropriate IS type for the specific company; - to develop skills to justify the need for IS implementation; - to develop skills to discuss the prospects of IS and IT.
Structure and tasks of independent studies	Independent studies are organized individually and in groups. it will help students to strengthen and deepen their awareness of acquired knowledge about IS deployment and use of IT in business. During the course students will take part in 3 cases studies seminars, finish 2 group assignments and one exam
Recommended literature	Effy Oz. Management Information Systems, 6th edition. - Thomson, 2009. Business Information Systems, 4th edition/ P.Bocij, A.Greasley, S.Hickie. - Pearson Education Limited, 2008. Laudon, Kenneth C., Management information systems: managing the digital firm / Kenneth C. Laudon, Jane P. Laudon. 13th ed., global ed. Boston [etc.] : Pearson, c2014. 639 lpp. : il. ISBN 9780273789970. Haag, Stephen Management information systems: for the information age / Stephen Haag, Maeve Cummings. 9th ed. New York: McGraw-Hill Irwin, 2013. xxxv, 554 lpp. : il., diagr., sh., tab. ISBN 9780071314640 (IE). Oz, Effy. Management information systems / Effy Oz. 3rd ed. Boston, MA: Course Technology/Thomson Learning, 2002. xxxi, 751 lpp. : il. Excellence in information systems. ISBN 0619062509.
Course prerequisites	Knowledge in economic theory, business management.

Course contents

Content	Full- and part-time intramural studies		Part time extramural studies	
	Contact Hours	Indep. work	Contact Hours	Indep. work
Introduction to management information systems.	2	2	1	4
Generations of management information systems: types, architecture, advantages and disadvantages.	2	2	1	4
The software review of management information systems.	3	3	1	4
Theoretical aspects of management information systems development.	7	7	2	10
The use of management information systems in human life.	7	7	3	11
Case studies.	9	9	6	12
Development of information system model.	18	18	8	25
Writing and presentation of a paper.	12	12	2	26
Total:	60	60	24	96

Learning outcomes and assessment

Learning outcomes	Assessment methods
Is able to differentiate various management information systems and their built-in features, is able to justify the need for IS implementation.	1) Case studies - read 3 case studies, develop own view on described situations, take part in a discussion. 2) Group assignment - scientific and practical literature review, writing a reflection, presentation and discussion. 3) Exam.

Is able to apply some elements of management information systems for optimizing business activity, is able to choose the appropriate IS type for the specific company.	1) Case studies - read 3 case studies, develop own view on described situations, take part in a discussion. 2) Group assignment - scientific and practical literature review, writing a reflection, presentation and discussion. 3) Exam.
Is able to build a scaled model of an information system in MS Excel or/and Power BI.	Group assignment - Software prototyping, presentation, discussion.
Is able to discuss the prospects of IS and IT.	1) Group assignments - scientific and practical literature review, writing a reflection, presentation and discussion. 2) Exam.

Evaluation criteria of study results

Criterion	%
Cases studies - read 3 case studies, develop own view on described situations, take part in a discussion	20
Group work - Software prototyping, presentation, discussion	25
Group Work - scientific and practical literature review, writing a reflection, presentation and discussion	25
Exam	30
Total:	100

Study subject structure

Part	CP	Hours			Tests		
		Lectures	Practical	Lab.	Test	Exam	Work
1.	4.0	20.0	0.0	40.0		*	