Subject code	ECTS credits
INF5016	6

Course title in Lithuanian

IRT INFRASTRUKTŪRA IR ELEKTRONINĖ KOMERCIJA

Course title in English

ICT INFRASTRUCTURE AND ELECTRONIC COMMERCE

Short course annotation in Lithuanian (up to 500 characters)

Kurso tikslas – suteikti studentams pagrindines žinias apie verslo procesus, modelius ir priemones verslo procesus optimizuoti naudojant IKT atskirus ir infrastruktūrinius sprendimus.

Short course annotation in English (up to 500 characters)

The purpose of this course is to provide students with basic knowledge on business processes, methods and approaches to business processes optimization using ICT tools and infrastructure.

Prerequisites for entering the course

BSc degree in informatics, mathematics, or business administration

Course aim

The purpose of this course is to provide students with knowledge on business processes, ICT tools for e-business, and the role of ICT infrastructure in enabling electronic commerce and business.

Links between course outcomes, criteria of learning achievement evaluation, study methods and methods of learning achievement assessment

No	Course outcomes	Criteria of learning achievement evaluation	Study methods	Methods of learning achievement assessment
1.	Understand the local and global e-business environment	Students demonstrate knowledge of key ICT-related factors affecting the development of contemporary business	Lectures, practical works, individual work	In-class presentations/discussion, home assignment evaluation, mid-term exam, exam
2.	Understand how e-commerce success is dependent on ICT infrastructure solutions	Students are able to explain the enabling features of ICT infrastructure for e-business	Lectures, practical works, individual work	In-class presentations/discussion, home assignment evaluation, mid-term exam, exam
3.	Obtain knowledge on the contemporary ICT infrastructure solutions for e-commerce and e-business	Students demonstrate knowledge on different ICT solutions for e-commerce and e-business	Lectures, practical works, individual work	In-class presentations/discussion, home assignment evaluation, mid-term exam, exam
4.	Understand business models for e-commerce	Students are able to explain the enabling features of ICT infrastructure for e-business	Lectures, practical works, individual work	In-class presentations/discussion, home assignment evaluation, mid-term exam, exam

Links between study programme outcomes and course outcomes

Study programme outcomes	Running number of course outcome			
	1	**2**	**3**	**4**
9. Critically evaluate personal results and professional experience and other persons' activity	+	+	+	+
10. Work both independently and in an interdisciplinary team, generate ideas, integrate knowledge and skills	+	+	+	+

Content

No	Content (topics)
1.	The global and local environment for e-commerce and e-business

2.	Transactions as the basis of business and economy. Transaction processing systems
3.	Organizations, business processes, and the types of IS in organizations
4.	IT-induced business optimization
5.	Structured and unstructured communication (EDI), OSI model
6.	Standards and standardization (XML)
7.	Digital and social media
8.	Electronic channels, intermediaries, electronic markets
9.	Integrated Enterprise Systems (IES) / Enterprise Resource Planning (ERP)

Distribution of workload for students (contact and independent work hours)

Lectures	45 hours
Seminars	15 hours
Group work	15 hours
Individual students work	85 hours
Total:	160 hours

Structure of cumulative score and value of its constituent parts

Final written exam (50%), mid-term written exam (20%), and assessments of seminars and homework (35%).

Recommended reference materials

No	Publication year	Authors of publication and title	Publishing house	Number of copies in		
				University library	*Self study rooms*	*Other libraries*
Basic materials						
1.	2008	R.T. Watson, P.Berthon, L.F. Pitt, G.M. Zinkhan. "Electronic Commerce: The Strategic Perspective."	GlobalText Project			Free online access, Creative Commons license
2.	2009	P.McKeown. "Information Technology and the Networked Economy."	GlobalText Project			Free online access, Creative Commons license
3.	1999	J. Christopher Westland, Theodore H.K. Clark. "Global Electronic Commerce: Theory and Case Studies."	The MIT Press. ISBN 0-262-23205-7	1	1	
Supplementary materials						
4.	2015	J. Gallaugher. "Information Systems: A Manager's Guide to Harnessing Technology."	FlatWorld Knowledge			
5.	2010	K. Laudon, J. Laudon. "Essentials of MIS."	Prentice Hall, ISBN-10: 0136110991 ISBN-13: 978-0136110996			
6.	1994	Venkatraman, N. "IT-Induced Business Transformation: From	*Sloan Management Review*	http://www.cs.jyu.fi/el/tjtse56_10/TJTSE56_Syllabus_files/Venkatraman%20-%20IT%20Enabled%20Business%20Transformatio		

		Automation to Business Scope Redefinition."	35 (2): 73–87.	n%20-%20From%20Automation%20to%20Business%20Scope%20Redefinition.pdf

Course programme designed by

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