

FACULTY OF ENGINEERING STUDY COURSE DESCRIPTION

Course Title:	E-business systems				
Course code (LAIS):					
Study programme:	Information technology				
Level of Study programme:	<input type="checkbox"/>	1st level professional higher education			
	<input checked="" type="checkbox"/>	Professional Bachelor			
	<input type="checkbox"/>	Professional Master			
	<input type="checkbox"/>	Academic Master			
	<input type="checkbox"/>	PhD level			
Type of Study programme:	<input type="checkbox"/>	Compulsory course (Part A)			
	<input checked="" type="checkbox"/>	Professional specialization courses (Part B, compulsory)			
	<input type="checkbox"/>	Professional specialization optional courses (Part B, optional)			
	<input type="checkbox"/>	Elective courses (Part C)			
Course Workload:	Credits	ECTS	Academic hours	Contact hours	Independent work hours
Full time	2	3	80	32	48
Part time	2	3	80	10	70
Course Author/ Tutor:	Name Surname				
	Guest lecturer, master's degree				
	<u>e-mail</u> : artjoms.tanigins@va.lv				
	Consultation: according to the schedule for each semester				
Study Form:	Full time studies/ Part time studies				
Study year, semester:	3rd year 5th semester				
Language:	Latvian/english				
Prerequisites for the Course:	Web technologies, Databases				
Course Summary:	The aim of the study course is to acquaint students with the principles of operation of e-Business systems, related technologies, with an in-depth focus on the practical development process and operation of such systems in accordance with modern trends and good practices.				
Assessment:	In independent work, students perform prototype development improvement works, supplementing the work done in the practical lesson, with the aim to defend and demonstrate developed IS components and subsystem integrations during the exam.				
Requirements for Credits:	Examination				
Abiding by the Academic Ethics	Students must abide by the academic and research ethics, Vidzeme University of Applied Sciences Ethics Regulations, incl.:				
	<ul style="list-style-type: none"> – study papers must be independently developed; – the study work should reference all statements, ideas and data used that have been authored by someone else; – appropriate data acquisition methods should be used in the acquisition of data, the research ethics must be respected, empirical data must be collected independently and cannot be distorted or falsified; – the examination must be carried out by the student independently, without the use of supporting materials and/or consultations with other students, unless the lecturer states otherwise. <p>In the event of non-compliance with the academic and research ethics, punishment is imposed in accordance with the ViA Ethics Regulations and the study course must be re-taken, unless the punishment is extramarital.</p>				
Learning Outcomes; the evaluation methods and criteria	Learning Outcomes			The evaluation methods and criteria	
	Knowledge				
	Facts of e-business system development history, terms, basic principles of IS development, architecture and maintenance, summary of current business system directions			Test questions about the given theory.	

	<p>Skills</p>						
	<p>Competency</p> <table border="1"> <tr> <td>Ability to work in a team</td> <td>Practical work, examination</td> </tr> <tr> <td>Ability to plan works</td> <td>Practical work, examination</td> </tr> <tr> <td>Ability to develop an e-business system prototype</td> <td>Practical work, examination</td> </tr> </table>	Ability to work in a team	Practical work, examination	Ability to plan works	Practical work, examination	Ability to develop an e-business system prototype	Practical work, examination
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Ability to plan works	Practical work, examination						
Ability to develop an e-business system prototype	Practical work, examination						
Course Compulsory literature:	<p>Faisal Hoque. e-Enterprise: Business Models, Architecture, and Components. Cambridge University Press, 200, p 284. Amjad Umar. E-Business and Distributed Systems Handbook: Middleware Module. Nge Solutions, 2004. Amjad Umar. Architectures Module: Solution Architectures Through Components. Nge Solutions, 2004. Amjad Umar. E-Business and Distributed Systems Handbook: Integration Module. Nge Solutions, 2004. Thomas Erl. Service-Oriented Architecture: A Field Guide to Integrating XML and Web Services. Prentice Hall PTR, 2004, p 521. Brian Halligan, Dharmesh Shah. Inbound Marketing: Get Found Using Google, Social Media, and Blogs (New Rules Social Media Series). John Wiley & Sons Inc., 2020, p 231. Eric Evans. Domain-Driven Design: Tackling Complexity in the Heart of Software. Addison-Wesley Professional, 2003. Steve Krug. Don't Make Me Think: Common Sense Approach to Web Usability. New Riders Publishing, 2006. Bruce C. Brown. The Complete Guide To Affiliate Marketing On The Web. Atlantic Publishing Group, 2009. Evan Bailyn with Bradley Bailyn. Outsmarting Google: SEO Secrets To Winning New Business. Que Publishing, 2011. Ben Hunt. Convert! Designing Web Sites to Increase Traffic and Conversion. Wiley Publishing, Inc., 2011.</p>						
Course additional literature:	<p>Amjad Umar. E-Business and Distributed Systems Handbook: Overview Module. Nge Solutions, 2004. Amjad Umar. E-Business and Distributed Systems Handbook: Applications Module. Nge Solutions, 2004. Paul Harmon, Michael Rosen, Michael Guttman. Developing E-Business Systems and Architectures: A Manager's Guide. 2000. Alan R. Simon, Steven L. Shaffer. Data Warehousing And Business Intelligence For e-Commerce. Michael Fitzgerald. Building B2B Applications with XML: A Resource Guide. 2001. Christoph Bussler. B2B Integration. 2003.</p>						
Course confirmation date:	22.05.2018						
Date of course description update:	03.09.2018						

Study Course Plan for Full Time Students:

Date	Theme	Academic hours		Study Form/ Organization of independent work of students and task description
		Contact hours	Independent work hours	
<i>The date is specified before the implementation of the course</i>	Course introduction	2	2	Lecture

	General information about e-Business Systems.	2	4	Lecture
	Descriptions of examples of existing Business Models	2	4	Lecture
	Divide into groups Creating a system name, purpose What problem is being solved? What is the business model What subsystems / modules will be needed	2	4	Practical lesson
	Development and demonstration of a potential product presentation. Creating teams.	4	4	Practical lesson
	Agile development methods for e-Business, Scrum.	2	4	Lecture
	Introduction to Start-up and summary of existing examples	2	4	Lecture
	Team work in groups: division of duties and responsibilities. Development of prototypes of IS modules	4	4	Practical lesson
	e-Enterprise Architecture, “web-service” architecture with application and execution examples.	4	4	Lecture
	System operation and maintenance, service levels, continuity management. A brief look at the ITIL process management methodology. System Monitoring.	2	4	Lecture
	Summary	2	4	Lecture
	Team work in groups: Prototyping and integration of IS modules	2	2	Practical lesson
	Exam	2	4	Transfer of practical work and replacement. Individual conversations about the contribution of practical work
Hours total:		32	48	

Study Course Plan for Part Time Students:

Date	Theme	Academic hours		Study Form/ Organization of independent work of students and task description
		Contact hours	Independent work hours	
<i>The date is specified before the implementation of the course</i>	Course introduction	1	2	Lecture
	General information about e-Business Systems.	1	2	Lecture
	Descriptions of examples of existing Business Models	1	2	Lecture
	Agile development methods for e-Business, Scrum.	2	2	Lecture
	Introduction to Start-up and summary	1	2	Lecture



	of existing examples			
	Development of prototypes of IS modules	4	60	Practical work and demonstration
	Hours total:	10	70	