



RTU Course "Electronic Commerce in Logistics"

12111 Modelēšanas un imitācijas katedra

General data

Code	DMI707
Course title	Electronic Commerce in Logistics
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Post-graduate Studies
Course type	Academic
Field of study	Computer Science
Responsible instructor	Arnis Lektauers
Volume of the course: parts and credits points	1 part, 3.0 Credit Points, 4.5 ECTS credits
Language of instruction	LV, EN, RU
Possibility of distance learning	Not planned
Abstract	This study course covers the key concepts of electronic commerce and its application in logistics area that includes the organization of commercial activities and logistics systems management in the Internet using the modern Web 2.0 and 3.0 technologies, the accent devoting to the B2B, B2C, C2C, C2B and C2G models of the electronic commerce. By characterizing the electronic commerce concepts, the management problems of electronic business, as well as of material, information and financial flows are there examined. In this course, a special attention is paid to the development and implementation technologies, as well as to application and integration principles of electronic commerce systems in logistics and supply chain management by taking into account the activities of Internet service providers, electronic payment methods and e-commerce security problems. During practical lessons, an opportunity to obtain practical skills in the development of e-commerce systems based on an example of B2B Internet shop is there supported.
Goals and objectives of the course in terms of competences and skills	To provide knowledge about e-commerce technologies and systems, as well as to acquire practical skills in the development of e-commerce solutions. To form students' abilities and competences in the design, development, testing and maintenance of e-commerce systems.
Structure and tasks of independent studies	Students' independent work includes these activities: development of an electronic shop prototype, analytical work with scientific, practical literature and other information sources related to e-commerce systems.
Recommended literature	<ul style="list-style-type: none"> •Chaffey D. E-Business and E-Commerce Management: Strategy, Implementation and Practice. – Prentice Hall, 2011. – 800 p. •Laudon K. C., Traver C. G. E-Commerce 2011: Business, Technology, Society. - Prentice Hall, 2010. – 912 p. •Turban, E., Lee, J. K., King D., Liang, T. P., Turban, D. Electronic Commerce 2010: A Managerial Perspective. - Prentice Hall, 2009. – 968 p.
Course prerequisites	Basic knowledge in Economics and Information technology

Course outline

Theme	Hours
E-commerce in logistics: object of e-commerce, history and development stages, influence on economy	4
E-commerce information technology: electronic data interchange, standards and classifiers, data identification methods	6
Information systems of e-commerce: classification, models, e-payment, e document and e-government systems	4
Electronic business and marketing	4
Development of e-commerce systems: design, programming, testing and maintenance	4
Reliability of e-commerce information systems	2
Efficiency of e-commerce information systems	2
Integration of e-commerce and logistics: e-logistics	4
Intermediate checks (control work, individual research, discussions etc.)	2
Labs	16

Learning outcomes and assessment

Learning outcomes	Assessment methods
Are able to define, interpret and use professional terminology in the area of electronic commerce.	Successfully passed test.
Are able to develop a project of e-commerce solution.	While doing laboratory works, the ability to perform assigned tasks based on the laboratory work guide is demonstrated.
Are able to evaluate designing and implementation techniques of the proposed e-commerce solution.	While doing laboratory works, the ability to identify the possible solution paths, constraints of the give task, as well the ability to provide alternative solution variants is demonstrated.

Are able to explain the essence of application, possibilities and importance of information technologies in different areas of e commerce.

When passing the examination, the ability to understand the essence of the thematic task, as well as the ability to provide a laconic and well-reasoned clarification of assigned themes is shown.

Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	3.0	4.5	2.0	0.0	1.0		*	