



RTU Course "E-services in Education and Science"

12306 Lietišķo datorzinātņu katedra

General data

Code	DPI722
Course title	E-services in Education and Science
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	Uldis Sukovskis
Academic staff	Zigmunds Zitmanis Renāte Strazdiņa
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Language of instruction	LV, EN
Possibility of distance learning	Not planned
Maximum auditorium capacity	32
Maximum number of students per semester	32
Abstract	First part of the course introduces students to e-services, by reviewing related organizational issues and technologies available, for instance, identity management, portal technologies, payment systems etc. Second part on the course looks at the education and science industry to analyze organizational, technical and economical aspects of e-service implementation.
Goals and objectives of the course in terms of competences and skills	The course objective is to acquaint students with technologies used to provide e-services. Tasks – to identify necessary e-services, by analyzing organization's main businesses and products and to review technical and organizational issues related to e-service implementation.
Structure and tasks of independent studies	Students will have to write and defend a group project. It will contain analysis to identify necessary e-services for particular organization and writing of a project for one e-service implementation.
Recommended literature	Davydov, Mark M. Corporate Portals and E-Business Integration : A Manager's Guide, Publisher: McGraw-Hill Professional Book Group, 2001 (e-grāmata pieejama caur ORTUS). Hanna, Nagy K. Transforming Government and Empowering Communities: The Sri Lankan Experience with e-Development, Publisher: World Ba, 2008 (e-grāmata pieejama caur ORTUS). E-Service : New Directions in Theory and Practice, Rust, Roland T. Kannan, P. K., Publisher: M.E. Sharpe, Inc., 2002 (e-grāmata pieejama caur ORTUS).
Course prerequisites	None

Course outline

Theme	Hours
Organization's mission, products and opportunities for e-service utilization	8
Organizational aspects of e-service implementation	8
Infrastructure for e-service delivery: identity management, portals, payment systems	24
Integration as part of an e-service: social networks and integration with other e-service providers	8
E-services for education and science: e-learning, e-library, Eduroam, Europass, CERIF	16

Learning outcomes and assessment

Learning outcomes	Assessment methods
Can define e-services to develop organization's products or increase efficiency.	Written exam that consists of theoretical and business case questions.
Knows how to set up a project team for e-service implementation and how to write an e-service description and solve issues related to the e-service maintenance	Individual home assignments.
Is able to define necessary infrastructure for e-service delivery, taking into account opportunities provided by outsourcing companies and social networks.	Group project.
Is able to analyze e-services used within the education and science industries and to transfer methods used in other industries.	Written exam that consists of theoretical and business case questions.

Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	4.0	6.0	2.0	1.0	1.0		*	