



## RTU Course "Networking Technologies in Education"

13211 Radioiekārtu katedra

### General data

Code	RRI700
Course title	Networking Technologies in Education
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Post-graduate Studies
Course type	Academic
Field of study	Electronics and Telecommunications
Responsible instructor	Ilmārs Slaidiņš
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Language of instruction	LV, EN
Possibility of distance learning	Not planned
Abstract	Education organization Networks and Associations. Information, knowledge, skills and competence. Theories of learning, formal and informal learning, social learning, Learning 2_0, Open Educational Resources. Collaboration in the learning process and supporting technologies. Web 2_0 technologies and learning. Technologies for social networking. In practical tasks available web 2_0 sites and open source software for social networking, wiki, blog and other Web 2.0 applications will be used.
Goals and objectives of the course in terms of competences and skills	The course aims to provide knowledge and skills in electronic networking technologies and their application in education. At the end of the course students will have knowledge on how web 2.0 and other electronic technologies could be used in education and will have skills to create collaboration network for learning needs using these technologies.
Structure and tasks of independent studies	Practical application of networking technologies in the learning of the course topics. Students have to perform learning tasks using social networking, wiki and blog.
Recommended literature	Changing Cultures in Higher Education. Moving Ahead to Future Learning Ehlers, Ulf-Daniel; Schneckenberg, Dirk (Eds.) 2010, X, 610 pp. Analysing Networked Learning Practices in Higher Education and Continuing Professional development. Dirckinck-Holmfeld L., Jones C., Lindström B. (Eds.). Sense Publishers, December 2009, 296 pp. Handbook on Information Technologies for Education and Training: Edited by H.H. Adelsberger, B. Collis, and J.M. Pawloski. Springer-Verlag, 2002. 715pp. Harasim, L., Hiltz, R., Teles, L., and Turoff, M. Learning Networks: A Field Guide to Teaching & Learning Online. Cambridge, MA: MIT Press, 1995. Papildus minētajai literatūrai tiks izmantoti zinātniskie raksti un informācija globālajā tīmeklī par kursa tēmu.
Course prerequisites	Basic computer skills

### Course outline

Theme	Hours
Knowledge based Economy. Education organization Networks and Associations.	4
Insight in the theories of learning, formal and informal learning, social learning.	4
Learning 2.0, Open Educational Resources.	8
Collaboration in the learning process and supporting technologies.	8
Web 2.0 technologies and learning. Technologies for social networking.	8

### Learning outcomes and assessment

Learning outcomes	Assessment methods
Knowledge on application of Web 2.0 technologies in education, Open Learning Resources and their role in innovative business	Test in the Virtual Learning Environment and activity in discussion on course topics. (40% of grade).
Skills in working with Web 2.0 technologies (social networking, wiki, blog)	Demonstrate skills working in Web 2.0 sites - performing cognitive tasks using social networking, wiki and blog (60% of grade).

### Study subject structure

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