



RTU Course "Portfolio Management Technologies"

12113 Vadības informācijas tehnoloģijas katedra

General data

Code	DOP701
Course title	Portfolio Management Technologies
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	Jānis Grabis
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
Abstract	Development of new products and identification of growth directions is an important enterprise strategic planning problem. It also has to be balanced with current enterprise objectives, resources and competences. The course explores different solutions of this problem using business process modelling, multi-criteria decision-making methods and product and project feasibility analysis methods. The main attention is devoted to integration of portfolio management into the overall life-cycle of information systems development. Technological solutions used in evaluation of alternative projects and for integration with other information systems development tools are explored in laboratory work.
Goals and objectives of the course in terms of competences and skills	The course objective is to learn project identification and project portfolio management methods and technologies.
Structure and tasks of independent studies	In the coursework students propose an innovative product development project and analyze project feasibility in the context of existing project portfolio. The proposal and analysis results are submitted in the form of a written report. Appropriate portfolio management technologies are used in the coursework.
Recommended literature	1. H.A. Levine (2005), Project Portfolio Management: A Practical Guide to Selecting Projects, Managing Portfolios, and Maximizing Benefits, Jossey-Bass. 2. D. Gochberg, R. Stewart (2008), Microsoft Office Project Server 2007: The Complete Reference, McGraw-Hill 3. Shan Rajegopal, Philip McGuin, & James Waller (2007), Project Portfolio Management: Leading the Corporate Vision, Palgrave-McMillan
Course prerequisites	Enterprise information systems

Course outline

Theme	Hours
Introduction: projects and project portfolio	8
Project identification and development of project portfolio	8
Project portfolio optimization	8
Methods for assessment of products and projects	8
Resource allocation	8
Multi-criteria analysis of project portfolio	8
Development of project portfolio management information system	8
Project portfolio management dashboard	8

Learning outcomes and assessment

Learning outcomes	Assessment methods
Ability to determine project portfolio efficiency measures and to allocate resources to competing projects	Laboratory work on evaluation of project portfolio efficiency measures
Ability to analyze project portfolio and to identify the most promising projects	Coursework on project portfolio analysis
Ability to integrate portfolio management into enterprise information technology architecture	Examination questions on interactions between portfolio management and business process management and enterprise information technology architecture
Ability to design technological environment for portfolio management	Laboratory work on deployment and configuration of portfolio management tools

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		*	