



RTU Course "Introduction to Operations Research"

12113 Department of Management Information Technology

General data

Code	DOP201
Course title	Introduction to Operations Research
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Undergraduate Studies
Course type	Academic
Field of study	Computer Science
Responsible instructor	Vineta Minkēviča
Academic staff	Raisa Smirnova
Volume of the course: parts and credits points	1 part, 3.0 Credit Points, 4.5 ECTS credits
Language of instruction	LV
Annotation	Operations Research is a very important field of study, which is closely related to business applications. It combines the three broad disciplines of Mathematics, Computer Science, and Business Applications. The study course presents the most important operations research problems and diversity of the addressed methods; provides knowledge about possibilities of using the theoretical models in real situations and quantitative analysis of systems.
Recommended literature	Frolova L. Ekonomisko procesu matemātiskā modelēšana, Rīga, Biznesa augstskola Turība, 1999 D.Kļaviņš. Lineārā programmēšana piemēros. Rīga, Zvaigzne, 2001 Ģ.Vulfs. Masu apkalpošanas sistēmu modeļi. Rīga, RTU, 2002 V. Minkēviča, Ģ. Vulfs, B. Rajecka. Ievads operāciju pētīšanā. Rīga, RTU, 2008 David R.Anderson, Dennis J.Sweeney, Thomas A Williams. Management Science. Quantitative Approaches to decision Making. 7th ed. St. Paul, MN: West Publishing Company, 1994 Wayne L.Winston. Operations Research. Applications and Algorithms. Belmont. California: Wadsworth Publishing Company, 1994
Course prerequisites	

Course outline

Theme	Hours
	2
	8
	6
	6
	6
	8
	4
	4
	4

Learning outcomes and assessment

Learning outcomes	Assessment methods

Study subject structure

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