



RTU Course "Information Technology Fundamentals"

12113 Vadības informācijas tehnoloģijas katedra

General data

Code	DOP712
Course title	Information Technology Fundamentals
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, 2.0 Credit Points, 3.0 ECTS credits
Language of instruction	LV, EN
Possibility of distance learning	Not planned
Abstract	Information technology is a key enabler of performing business functions at modern enterprises. It combines software, hardware and communications technologies to support execution of business activities. The course introduces key concepts in information technology and identifies key drivers and trends in development of information technology. Information technology solutions are viewed from the enterprise information technology perspective, and infrastructure, data, application, presentation and business process layers of these solutions are explored.
Goals and objectives of the course in terms of competences and skills	The course objective is to understand key concepts, drivers and trends in information technology and to understand their relevance to modern enterprises.
Structure and tasks of independent studies	For each topic in the course a case study will be discussed with students and students will have to prepare their solution to problems identified in the case study.
Recommended literature	Laudon K.C., Traver, C.G. (2011), Management Information Systems (12ed), Prentice Hall
Course prerequisites	-

Course outline

Theme	Hours
Role of information technology and main trends	4
Information technology architecture	8
Information technology infrastructure	6
Types of software applications	6
Main systems development principles	8

Learning outcomes and assessment

Learning outcomes	Assessment methods
Ability to interpret the main drivers behind development of information technologies and their adoption at enterprises	Case studies, exam
Ability to explain main layers of information technology architecture	Exam
Ability to explain main principles of designing information technology infrastructure	Case studies, exam
Ability to identify appropriate information technology solutions for given application problems	Case studies, exam
Ability to understand main principles of systems development	Case studies, exam

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		*	