RTU Course "Knowledge Management"

12307 Sistēmu teorijas un projektēšanas katedra

General data

Code	DSP560
Course title	Knowledge Management
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	Kirikova Mārīte
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	The course describes the notion of knowledge, nature of knowledge, and knowledge types in the context of organizational knowledge management. Students get acquainted with a lifecycle of knowledge management system and practice different tasks of each of the steps of the lifecycle by playing particular roles in knowledge management team(s). Students learn to identify knowledge needs and goals as well as to design methods and tools for meeting the knowledge goals. They get acquainted with approaches to organizational learning and practice knowledge management ethics.
Goals and objectives of the course in terms of competences and skills	The goal of the course is to equip students with knowledge and skills necessary to: explain the impact of the nature of knowledge on the management of knowledge; understand and interpret the concept and objectives of knowledge management in the context of organizational strategy and infrastructure, and to develop competence of choosing right IT solutions for particular knowledge management needs.
Structure and tasks of independent studies	During the individual assignments students will develop a blueprint of a knowledge management system.
Recommended literature	Amrit, Tiwana (2002). The Knowledge Management Toolkit: Orchestrating IT, Strategy and Knowledge Platform. 2nd ed. Ronald Maier, Knowledge Management Systems: Information and Communication Technologies for Knowledge Management, Springer; 3rd edition, 2007.
Course prerequisites	Recommended: knowledge in requirements engineering, software engineering, information systems design, systems theory, and business process management.

Course outline

Theme	Hours
Knowledge, knowledge management aims, perspectives and challenges	12
Knowledge management system	8
Knowledge management strategy	4
Knowledge audit	4
Introducing knowledge management system project	4
Knowledge management system design	12
Methods for evaluation of knowledge management process. Knowledge management ethics	8
Organizational learning and learning organizations	8
Knowledge management in innovation engineering	4

Learning outcomes and assessment

Learning outcomes	Assessment methods
Understanding of the essentials of knowledge, knowledge management, and knowledge management system.	Models of knowledge, knowledge management, and knowledge management system designed by the student.
Ability to align business strategy and knowledge management strategy.	Appropriately formulated knowledge management strategy for a given situation.
Ability to use and evaluate knowledge management technologies.	Well motivated choice of particular technologies in a provided context.
Ability to perform knowledge audit.	Knowledge audit performed and results documented.
Understanding of socio-ethical aspects knowledge management.	Student presents skills to fulfill the roles of the knowledge management teem according to engineering ethics.
Ability to design knowledge management system.	A nontrivial knowledge management system's project acomplished – team work.

Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	4.0	6.0	2.0	2.0	0.0		*	