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| **Course unit title** | **BUSINESS PROCESS MODELING** |
| **Course unit code** | Citi6040 |
| **Type of course unit** | A part – Compulsory part |
| **Level of course unit** | 2nd cycle (Master) |
| **Year of study** | - |
| **Semester** | I |
| **Number of ECTS credits** | 4,5 |
| **Name of lecturer(s)** | Anita Jansone, Dr.sc.comp. |
| **Learning outcomes of the course unit** | Students will have master skills and abilities in business process modelling and analysis of imitation results.  **Aims of the course:**  To develop understanding of modelling, its aims and to understand general conceptions of business modelling. Give direction of modelling tools GRADE actions basic principles and their usage in business processes modelling.  **Objectives of the course**  To acquire general conceptions of business modelling and basic principles of modelling tool GRADE's usage. |
| **Mode of delivery** | Face-to-face |
| **Prerequisites and co-requisites** | Computer science /**Computers and system software** |
| **Recommended optional programme components** | - |
| **Course contents** | In course's theoretical part students acquire the most important notions of business systems: process, business modelling, and notions of business modelling: tasks, incident, etc. Basic principles of modelling tool GRADE orgstructure modelling, business process modelling and imitation, statistics.  In the course practical part students work out not big correctly imitable model, using GRADE. |
| **Course plan** | |  |  | | --- | --- | | 1. Introduction in business process modelling | Most important notions of business systems: process, business modelling, basic conceptions of business modelling: tasks, incident, etc., | | 2. Basic principles of modelling tool GRADE | Basic principles of modelling tool GRADE; development of ORG and BP; tasks, incidents, terms, syntax etc.; BP realisation, usage of data in modelling and imitation. Statistics of imitation's results.  Testing of models informative accuracy (validation) with help of statistics learning examples. | | 3. Overview on business modelling languages and tools | Overview on business modelling languages and tools. | | 4. Business modelling current themes | Business modelling current themes by lecturer's choice | | 5. Development of business process | Students work out individual models | | 6. Realisation of business process | Students present models they have worked out | |
| **Recommended or required reading** | James F. Chang . Business Process Management Systems : Strategy and Implementation. 2006, ISBN: 0-8493-2310-X  Benjamin A.Lieberman. The Art of Software Modeling. 2007, ISBN: 1-4200-4462-1  Goetsch David L. Quality Management : introduction to total quality management for production, processing, and services / David L. Goetsch, Stanley B. Davis. - 5th ed. - Harlow : Prentice Hall : Financial Times, 2006. - XVIII, 814 p. : tab., diagr. - Includes bibliographical references.-Index: p. 794.-814.  ISBN 0-13-197134-4  GRADE home page: <http://www.gradetools.com>  GRADE USER GUIDE <http://www.gradetools.com/h> |
| **Planned learning activities and teaching methods** | Lectures, seminars, practical classes, students' work on individual models |
| **Assessment methods and criteria** | **Exam**  Successfully passed test.  Developed and presented correctly imitable Business Process (BP) model with not less than 15 tasks, at least one decision tasks and cycle! |
| **Language of instruction** | English |
| **Work placement(s)** | N/a |