UNIVERSITY OF ECONOMICS - VARNA MASTER DEGREE STUDIES CENTER DEPARTMENT "INFORMATICS"

ACCEPTED BY: Rector: (Prof. Dr. Plamen Iliev)

SYLLABUS

SUBJECT: "BUSINESS PROCESS MODELING"; DEGREE PROGRAMME: "Computer Science"; MASTER`S DEGREE YEAR OF STUDY: 5; SEMESTER: 9 (same field graduates), 10 (other fields graduates); TOTAL STUDENT WORKLOAD: 210 h.; incl. curricular 60 h. CREDITS: 7

DISTRIBUTION OF WORKLOAD ACCORDING TO THE CURRICULUM

TYPE OF STUDY HOURS	WORKLOAD, h.	TEACHING HOURS PER WEEK, h.
CURRICULAR:		
incl.		
LECTURES	30	2
• SEMINARS (lab. exercises)	30	2
EXTRACURRICULAR	150	-

Prepared by:

- 1. (Assoc. |Prof. Dr. NadezhdaFilipova)
- 2.(Assist. Prof. YankaAlexandrova)

Head of department:"Informatics"(Prof. Dr. Vladimir Sulov)

I.ANNOTATION

Business process modeling is an essential component of business process analysis and improvement efforts. It is also a key activity in information systems development, especially in modern e-business systems. In this context, the course is designed to provide the students with some of the fundamental concepts of business process modeling, such as the importance of modeling, the process of building models, the methods, tools and techniques used in this process, etc.

Expected results: understand the benefits of business process modeling; identify the components of business processes; in-depth understanding of thebusiness process modeling methods; practical skills inusing modeling tools; acquaint with some best practices in the field.

No. TITLE OF UNIT AND SUBTOPICS **NUMBER OF HOURS** by row L S LS **1. BASIC CONCEPTS OF BUSINESS PROCESS MODELING** (BPM) - needandrelevance; importance; 6 essenceandbasiccharacteristics; relationshipwithotherconcepts 2. BUSINESS PROCESSES – elements; workflows, process management life cycle; classification; discovering business 6 3 processes; as-is vs. to-be processes **3. BUSINESS PROCESS MANAGEMENT SYSTEMS-**6 3 implementing and managing business processes 4. BUSINESS PROCESS MODELING METHODS- various 2 approaches to BPM; classification of modeling methods 5. BUSINESS PROCESS MODELING WITH EPC 2 6 advantages, core concepts, elements and rules 6. BUSINESS PROCESS MODELING WITH BPMN 2 6 advantages, core concepts, elements and rules 7. TECHNIQUES FOR GATHERING INFORMATION 3 3 **ABOUT BUSINESS PROCESSES** 8. BUILDING BUSINESS PROCESS MODELS- definition of a business area; stages in the development of the modeling project; 3 9 case studies 30 30 Total:

II. THEMATIC CONTENT

III. FORMS OF CONTROL:

No. by row	TYPE AND FORM OF CONTROL	N⁰	Extra- curricu- lar, h.
1.	Midterm control		
1.1.	Course project	1	50
1.2.	Presentation on a hot topic of BPM	1	50
	Total midterm control:	2	100
2.	Final term control		
2.1.	Test (open and/or closed questions)	1	50
	Total final term control:	1	50
	Total for all types of control:		150

IV. LITERATURE

REQUIRED(BASIC) LITERATURE:

1.Dumas, M. et al. Fundamentals of BPM.Springer, 2013.

2.Filipova, N. Conceptual Architecture of Business Process Management Systems. Izvestiya, 2013, issue 2, pages 43-54.

3. Filipova, N. Business Modeling (lecture notes). UE-Varna, 2016.

RECOMMENDED(ADDITIONAL)LITERATURE:

1.Business Process Model and Notation.OMG.<http://www.bpmn.org/>.

2. Eisenberg, R. SamsTeachYourself Windows WorkflowFoundationin 24 Hours. PearsonEducation, Inc., 2009.

3. Schedlbauer, M. TheArt of BusinessProcessModeling. Createspace, 2010.

4. Филипова, Н., Ф. Филипов. Бизнес моделиране. "Наука и икономика", ИУ-Варна, 2009.