## **COURSE DESCRIPTION**

COURSE NAME WORKFLOW. MODELLING, VERIFICATION, SECURITY CODE: MSD2206							
STUDY YEAR MAS	MASTER II SEMESTER 2			COURSE STATUS ( <b>C</b> -compulsory/ <b>OP</b> -optional/ <b>F</b> -facultative)			
HOURS PER WEEK  C S L Pr.	TOTAL HOURS PER SEMESTER	TOTAL HOURS INDIVIDUAL ACTIVITY	CREDITS		EVALUATION le semester, <b>C</b> -oral examination, ten examination, <b>M</b> -mixed)	TEACHING LANGUAGE	
2 - 2 -	56	184	8		M	English	
			RST NAME, LAST NAME DEPAR U MASALAGIU Computer				
PREVIOUS COURSES REQUESTED   Coding Theory and Cryptography (optional), Petri Nets and Applications (optional)							
OBJECTIVES  1. Understand the role of workflow technologies for modern software development 2. Learn the most important modelling languages and apply workflow patterns for concrete modelling problems 3. Know how to use verification methods for workflow 4. Recognise security concerns given a concrete workflow instance  GENERAL  1. The Role of Workflow in Complex Information Systems							
DESCRIPTION	<ol> <li>Modelling Languages</li> <li>2.1. BPMN (Business Process Model and Notation)</li> <li>2.2. YAWL (Yet Another Workflow Language)</li> <li>2.3. Colored Petri-nets</li> <li>Workflow Patterns</li> <li>Workflow Semantics and Verification Techniques</li> <li>Security Concerns for Workflow Management Systems</li> </ol>						
DESCRIPTION OF SEMINARY / LABORATORY WORKS	The main goal of any Seminar/Laboratory is to facilitate a deeper understanding of the content of the prevoius courses, with the help of more complicated, new and detailed examples. This will be accomplished with the direct participation of the students						
TEACHING METHODS	All the classical didactic methods will be used: systematic exposure of knoledge, conversation, learning "by descovery", etc. The courses will be taught using a video-projector						
MAIN BIBLIOGRAPHY (SELECTION)	1, , , , , ,						
EVALUATION	conditio				ng the 14 weeks of semin of the corresponding cour		

EVALUATION		Every student will be tested during the 14 weeks of seminaries/labs (see below),
	conditions	not necessarily immediatelly to the corresponding course. A bonus may be
		granted for supplementary (good) answers/work (including research)
	criteria	The concrete criteria will be established during the first lecture
	evaluation	Additional written test may be given at fixed or unannounced dates
	methods	
	final result -	The grades will be rounded such as to get a Gauss curve for the given year of
	formula	study (see the regulations in the web page of the Faculty).