

### Scientific master's curriculum: Economic Informatics

**academic year: 2010-2011**

Course title		SOFTWARE QUALITY					
Course code	01010101OS511233A	Numbers of points	6	Hours per semester			
				Total	Lectures (C)	Seminar (S)	Laboratory/project work (L/P)
				56	28	28	-
Faculty where delivered	Cybernetics, Statistics and Economic Informatics			Year of study		5	
				Semester		I	
Specialization	Economic Informatics						
Master's Program of Study							
Course type: F – fundamental, S – specialized, C – complementary							S
Course curricular category : C – compulsory, E – elective, F - free, S - special							C
Pre-requisites	Compulsory						
	Recommended		Introduction to Management				
Learning objectives	General objectives Getting the student used with instruments for the quality management of the informatics applications. Specific objectives To develop the skills of planning, measuring and optimizing the quality of informatics applications belonging to IT projects.						
Course contents (descriptors)	<ul style="list-style-type: none"> <li>Software products, initial datasets, final results, online informatics applications</li> <li>Quality characteristics. The software and data quality correlations system.</li> <li>Quality metrics: properties, building, validating, implementing</li> <li>Software quality standards</li> <li>Quality management: requirements, objectives, functions, procedures</li> <li>Data and software quality optimization; software quality measuring tools</li> <li>Software reliability models: types of models, compared analysis</li> <li>Raising quality through maintainability and reengineering; quality cost</li> <li>Citizen oriented informatics applications quality management</li> </ul>						
Type of assessment (E – exam, A – continuous assessment, C – colloquium)							E
Assesment percentage	Exam answers						50%
	Aplicative activities certificates/laboratory/practical work/project						35%
	Control papers						15%
Bibliography	Ion IONIȚĂ - <i>Managementul calității și ingineria valorii</i> , Ed. ASE, București, 2008 Ion IVAN, Cristian AMANCEI – <i>Stabilitatea coeficienților modelului global de calitate software</i> , Ed. ASE, București, 2006 Ion IVAN, Gheorghe NOȘCA, Sergiu CAPISIZU, Marius POPA – <i>Managementul calității aplicațiilor informatice</i> , Ed. ASE, București, 2007, 500pg. ISBN 10 973-594-843-5, ISBN-13 978-973-594-843-6 Ion IVAN, Laurențiu TEODORESCU – <i>Managementul calității software</i> , Ed. Inforec, 1999 Marian CRISTESCU – <i>Evaluarea fiabilității software</i> , Ed. Universității Lucian Blaga, Sibiu, 2008 Marius POPA – <i>Evaluarea calității entităților text. Teorie și practică</i> , Ed. ASE, București, 2005, ISBN 973-594-712-9						
Instructors	Position, title, first name, surname						Signature
	Prof. Dr. Ion IVAN						
Legend: L – lecture; S – seminar; L/P – laboratory/project work.							