

THE BUCHAREST ACADEMY OF ECONOMIC STUDIES

Faculty: Faculty of Economic Cybernetics, Statistics and Informatics

Chair: Informatics in Economy Department

SYLLABUS

Academic year: 2010-2011

Course title	SOFTWARE QUALITY					
Course code	01010101OS511233A	Number of credit points	Hours per semester / activities			
			Total	C	S	L/P
		8	56	28	28	0
Faculty where delivered	Faculty of Economic Cybernetics, Statistics and Informatics				Year	Semester
					2	1
Master program	Economic Informatics					
Course type: F – fundamental, S – specialised, C – complementary						S
Course curricular category : C – compulsory, E – elective, F - free, S - special						O
Pre-requisites	Compulsory					
	Recommended					
Learning objectives						
General objectives: Getting the student used with the instruments to be able to perform quality management of applications. Specific objectives: Developing the skills of planning, measuring and optimizing the quality of informatics applications enclosed in IT projects.						
Course contents (descriptors)						
<ul style="list-style-type: none"> software products, initial datasets, final results, online informatics applications; quality characteristics; the software and data quality correlations system; quality metrics: properties, building, validating, implementing; software quality standards; quality management: requirements, objectives, functions, procedures; data and software quality optimization; software quality measuring tools; software reliability models: types of models, compared analysis; raising quality through maintainability and reengineering; quality cost; a project must be completed with the following objective: development and implementation of metrics to emphasize the level of performance of the application used in the dissertation thesis; the project structure is as follows: defining the objective, the necessary resources and the proposed and implemented solution. For the elaboration of the project a bibliography not older than 5 years is needed. The project structure includes: introduction, problem identification, elaborating possible solutions for implementation; defining how the solution will be identified; efficiency; the development cycle of the final product; quality analysis methods; conclusions; bibliography; annexes; the project must be loaded on an online platform for orthogonally analysis in the 14th week of the semester in which the course is studied. 						
Type of assessment (E – exam, A – continuous assessment, C – colloquium)					E	
Assessment percentage	Exams answers - 50% Applicative activities certificates/laboratory/practical work - 15% Project - 20% Control papers - 15%					
Bibliography	<ol style="list-style-type: none"> Кр"QPK ".O cpci go gpwrl'ecrkv k' k'kpi kpgtk"xcrqtk.CUG.422: Кр"KCP."I j gqti j g'P Q EC."Ugti kw'ECRUK W.'O ctkwu'RQRC".O cpci go gpwrl'ecrkv k'cr rlec kkrqt kphqto cv'eg.CUG.4229 O ctkcp'ETKUVGUEW'.Gxcnctgc'hcdkrk k'uqhy ctg.Wplxgtukv k'Nvekcp'Drci c.422: O ctkwu'RQRC".Gxcnctgc'ecrkv k'gpkv krt'vgz'0Vgqtkg" k'r tceve .CUG.4227 					
Instructors	1 Profesor univ. dr. IVAN ION					