CIT 404 - Project Management and Development II
COURSE OUTLINE

Course Name	Project Management and Development II
Course Code	CIT 404
Type of Course	COMPULSORY
Course Level	UNDERGRADUATE
ECTS Credits	8
Weekly Theory Hour	2
Weekly Practice Hour	2
Weekly Laboratory Hour	-
Year	2011-2012
Term	SPRING
Instructor (s)	
Education Language	ENGLISH
Prerequisite Course	CIT 403
Other Recommended Matters	*Prerequisite: CIT 403 and EDU 423* *It is suggested that CIT 307, CIT 410, CIT312, EDU 303 and CIT 314 should be taken before registering to this course.
Training Status	
Course Objectives	The major goals of this course are the followings: **1.** Using software development life cycle steps when developing a project: analysis, design, implementation, testing and evaluation. **2.** Understanding how to manage implementation of a project. **3.** Understanding how to apply test techniques (stress testing, smoke level testing) to a project. **4.** Understanding how to evaluate a project. **5.** Acquiring skills and abilities needed to prepare a comprehensive action plan, **6.** Practicing effective data collection techniques during evaluation phase. **7.** Providing a discussion for future work of the project in the context of a new proposal.

Learning Outcomes		At the end of this course student will be able to, **1.** Develop a software project through using software development life cycle steps. **2.** Develop instructional systems through an action work flow within a limited time schedule. **3.** Apply appropriate test techniques to a project implementation before evaluation of the project. **4.** Collect data and work on the collected data in order to realistically discuss findings and comments on the results of project evaluation **5.** Discuss the future work and findings of their developed project in the context of a new research proposal.	
Course Content		Students are responsible to work individually under close supervision of the course coordinator in order to produce their proposed software system that is pre-designed in CIT 403. This system can be an "instructional system design'' to teach a specific topic to a group of people or that it can be a solution to an education related problem within Computer Science discipline. The project goals, milestones, analysis and design phases should have been completed in CIT 403 and therefore, students are responsible to implement, test and evaluate their work in this lecture. Should students did not complete analysis and design phases of their project in CIT 403, they are responsible to complete these within this lecture. Knowledge, structures, principles and methods from computer and/or education related courses from previous semesters will be used during the specification, development, and testing / evaluation phases of the project. (Prerequisite: CIT 403)	
Weekly Detailed Plan	**WEEK**	**TOPICS**	
		Theoretical	**Lab (Practical)**
	1	Late Registration/Review of CIT 403 What we have learned in CIT 403?	Review of Analysis, Design and proposed system of a project.
	2	Reviewing the project plan, Finalising your proposed design	Demonstrating sample project plans from

		before starting implementation.	previous years.
	3	Estimating Time, Work Breakdown structures and scheduling development.	Using Microsoft Project 2010 for work breakdowns and scheduling project management.
	4	Implementation	
	5	Implementation	
	6	Implementation	
	7	**Midterm exams week**	
	8	Implementation	
	9	Implementation	
	10	What is testing? How a software project is tested? What tools and techniques are used?	Smoke level tests, stress level test. How can you test your implementation?
	11	What is project evaluation? How can you evaluate a project? Why project evaluation is crucial for future work? Evaluation methods used today.	Defining your audience, selecting an evaluation method for your project. Applying evaluation method and running an experimental evaluation.
	12	How an experimental evaluation is analysed? What conclusions can be drawn from your own evaluation?	Monitoring and analysing evaluation results.
	13	Reporting	
	14	Submission	
Textbook/Recommended Readings	Course Materials: GAU E-learning reading materials		

ASSESMENT METHODS

Term Activities	**Number**	**Percentage %**
Course activities and assignments	**6**	**12**
Term Project Implementation	**1**	**25**
Term Project Testing	**1**	**20**
Term Project Evaluation Results	**1**	**20**
Presentation	**14**	**18**
Attendance and participation	**14**	**5**
TOTAL		**100**

Calculation work load within the framework of learning, teaching and evaluation activities

Activities	**Number**	**Time (Hour)**	**Total Work Load (hour)**
Weekly theoretical hours	Week 1- 14	2	28

Weekly practical hours	Week 1- 14	2	28
Project planning review	Week 2	8	8
Estimating project time schedule	Week 3	8	8
Project Implementation	Week 3 - 9	8X6	48
Project's smoke level testing	Week 10	10	10
Project evaluation	Week 11-12	12	24
Reporting	Week 13-14	20	20
Presentation	Week 14	1	1
Library, Internet Research and tools usage (i.e. Microsoft Project) regarding evaluation techniques, test techniques, project scheduling and estimation.	-	50	50
TOTAL WORKLOAD (hour)=225			
COURSE ECTS CREDIT=Total Work Load (hour) /(30 hour/ECTS)= 225 / 30 = 7,5 = 8			

Programme and learning outcomes

Learning Outcomes (LO)	**Programme Outcomes (PO)**																
	PO 1	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PO 13**	**PO 14**	**PO 15**	**PO 16**	**PO 17**
LO1	4		3	5	5	5	4	3		3	5	5		3		2	
LO2	3		2	5	5	3	5				5	5		3			
LO3	2		1	5	5	3	5		4	3	3	3					
LO4	3		2	5	5	3	5	5			3	5				5	
LO5	3	5	5	5	4	4	4	4	2		5	5		3	2		

*Contribution Level:

1 very low **2** low **3** medium **4** high **5** very high