CIT403 Project Development & Management I Course Syllabus

Course Name	Project Development & Management I
Course Code	CIT 403
Type of Course	COMPULSORY
Course Level	UNDERGRADUATE
ECTS Credits	**7**
Weekly Theory Hour	3
Weekly Practice Hour	2
Weekly Laboratory Hour	-
Year	2013-2014
Term	FALL
Instructor (s)	Asst. Prof. Dr. Yoney Kirsal
Teaching System	This course utilizes the Moodle course management system to share information and resources. To access the course site, log on to this link: http://elearning.gau.edu.tr and select the course from list of courses. All course materials will be posted here.
Education Language	ENGLISH
Prerequisite course	-
Other recommended matters	It is strongly suggested to complete CIT 206, CIT203 and a programming language course before taking the lecture.
Training status	-
Course Objectives	The course objectives are written in question format below : 1. How a project is developed? What stages are being applied when developing a project? 2. What is content and context analysis? What stages are being followed in order to perform a sufficient content and context analysis before designing a project? 3. What is risk analysis? What are the risks when creating a project? 4. What steps are being followed when designing a system? The module aims at providing the conceptual knowledge and acquiring the skills essential for • The management of computer networks, their development and subsequent operation, monitoring and assessment. • The management of the security enterprise information and network systems, including risk analysis, incident response and disaster recovery plans.
Learning Outcomes	On completion of this module the successful student should be able to: Knowledge 1. Define the techniques used to plan and implement; computer network projects and network security system 2. Explain the methodologies used in administering and managing key aspects of a computer network, and of network security 3. Explain the principles and techniques employed in the measurement and analysis of network performance, and in the analysis and development of network security

		4. Critically evaluate the capabilities and benefits of automated network management systems 5. Identify the major network security threats, protection mechanisms, contingency planning and incident handling Skills 6. Prepare a computer network project evaluation and implementation plan 7. Gather and analyse traffic information from a computer network, and assess the performance of the network; and perform troubleshooting operations on a computer network 8. Carry out detailed examination of an enterprise security by performing various types of analysis, including vulnerability and penetration testing; and undertake risk analysis and assessment using a range of theoretical and practical tools 9. Develop security plans and policies, and deploy appropriate safeguards through the provision of due consideration to the life-cycle of the network system 10. Performing critical analysis and problem solving of specified security scenarios 11. Work both individually and within a group in systematically researching a theme and producing structured critical report	
Course content		The need for the project analysis and design. Content, context and risk analysis. Goals for instruction. Functional and non-functional requirements of a project. Project management features and benefits. The importance of planning, scope, and time planning.	
Weekly detailed plan	**WEEK**	**TOPICS**	
		Theoretical	**Practical**
	1	Introduction to the course	Introduction to the course
	2-3	What is a project? How can we define a project? What is project management? How do we define project management hierarchy?	Define a project title, set goals for your project and write a project questions (i.e. the crux of your project that you want to reach at the end.)
	4-5	What is network management? How to plan network management?	
	6	Introduction to assignment: Explain the details of the coursework, project and how to write and implementing a project?	Sample written projects are given to class in order to show how to perform a successful project.
	7	Project management	Defining different and common roles

		processes, purpose of project manager and project team.	for a system
	8	**MIDTERM**	
	9	What is change management? How to process change management in project team?	Change management processes understanding milestones, roadmaps .
	10-11	Explaining network management from project manager's perspective. Discuss the network management tools.	Sample network management tools are given and exercises on network design and management will be discussed. **Quiz 1 on WEEK 11**
	12	What is risk analysis? Risk management and security policies.	Using variety of tools to create a risk management analysis.
	13	Security analysis and disaster recovery options. How to plan project's disaster recovery.	Sample security management tools are given and exercises on management will be discussed. **Quiz 2 on WEEK 13**
	14	General review before project submission and Revision **Quiz 3**	
	15	**FINAL**	
Textbook/ **Recommended Reading Materials**	• Cadle, J. and Yeates D. (2008) Project Management for Information Systems, 5th edition, Pearson, ISBN: 9780132068581 • Subramanian, M. (2010) Network Management: Principles and Practice. 2nd edition. Pearson, ISBN: 9788131734049		

Term Activities	**Number**	**Percentage**
Term Project	1	10
Quiz	3	30
Midterm	1	20
Final	1	40
TOTAL		100
Percentage of Classroom Activities		**60**
Percentage of Final Activities		**40**
	TOTAL	**100**

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

Activities	Number	Time (hour)	Total work load (hour)
Weekly Theory Hour	14	3	42
Weekly Practice Hour	14	2	28
Weekly Studying	15	2	30
Quizzes	3	20	60
Midterm	1	20	20
Final	1	30	30
TOTAL WORKLOAD (hour)= 210			
COURSE ECTS CREDIT=Total Work Load (hour) /(30 hour/ECTS)= 210 / 30 = 7			

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	3	4			3	3		3			
LO2	2			4	5	5		3		3	4	3		3			
LO3	2			4	4	5				3	3	3					
LO4	4			4	4	5				5	4	4				3	
LO5	4			4	4	4				3							
LO6	4			4	4	4			1	3	4						
LO7	4			4	4	4			3	3	4						
LO8	4			4	3	5				3	4			4			
LO9	4			4	4	4				3	3				2		
LO10	4			5	3	4				3	4						
LO11	4			5	4	3				3	3						

*Contribution Level:
1 very low **2** low **3** medium **4** high **5** very high

CITT Department Programme Outcomes

1. Having adequate level of knowledge and skills in current/new computing and educational technologies.
2. Having sufficient communication and teaching skills in teaching profession.
3. Being able to teach updated computing technologies efficiently in English.
4. Being able to identify information technology problems through using various analysis and synthesis.
5. Being pragmatic to develop and apply persistent information technology solutions to educational and business problems.
6. Being able to use critical and computational thinking skills to produce alternative solutions at every level of project development life-cycle.
7. Being capable to work in disciplinary and interdisciplinary teamwork.
8. Being sensitive, reactive and responsive to professional, social and ethical issues. Having social and ethical awareness in teaching and in providing solutions to problems.
9. Having adequate level of knowledge and skills in current/new computer hardware, operating systems and computer networks.
10. Adequate level of knowledge and skills in current/new programming languages, programming paradigms (procedural and object-oriented) and programming environments (visual, console-based programming).
11. Being able to analyse, plan and manage educational software design and project development.
12. Having the capability of evaluating and criticising educational software design and development.
13. Adequate level of knowledge in using and integrating current/new e-learning and distance education systems such as learning management systems (LMS).
14. Having sufficient skills and knowledge in using instructional technology and material design.
15. Having skills to apply and use special teaching approaches, theories, teaching strategies, methods and techniques (such as to those people with disabilities).
16. Using appropriate measurement and evaluation techniques to assess students' learning and development in addition to supporting them with good level of feedback.
17. Having sufficient knowledge in the process of establishment of Republic of Turkey. Identifying social, cultural, political and economic problems through understanding Ataturk’s principles and revolution.