Project Description:

Based on the UTM manual rubric grading system overview:

Your team has to identify and analyze the problems, propose the solutions to develop new system based on the SAD methodology (life cycle, method, tool and technique). In order to complete the project, your team has to perform the specified tasks:

Stage	Guidelines	Deliverables	Due date	Marks

Planning
 	
[Topic 2]
	Conduct **problem background**
	• Organizational background study, problems statement, objectives
	• What areas the systems to cover (scope)
	  o What will be included
	  o What will not be included
	• Benefits from the systems/contribution
	
	Propose an **operational feasibility study** indicating:
	• Time to produce the systems
	• Who will produce it
	• A deadline (expected completion date)
		P1- PROJECT PROPOSAL & PLANNING
		
		1. The scenario
		2. Problem statement
		
		3. Project Planning
		  a. Gantt chart
		  b. PERT diagram
		
		4. Teamwork assessment
		  a. Instructor
		  b. Peer-Review
			Week 6	**10%**

Requirements
 	
[Topics: 3, 4]
	Information Gathering
	• Get also information on the current systems ***(as-is)***
	• Gathers information about what the users want in the new systems ***(to-be).***
	• Conduct interactive and unobtrusive methods to gather the information from the relevant stakeholders
		P2- IS GATHERING & REQUIREMENT:
		
		1. Business Process/ Work Flow
		2. DFD AS-IS
		  a. Context Diagram
		  b. Logical DFD – Diagram 0
		  c. Child Diagram
		
		3. Teamwork assessment
		  a. Instructor
		  b. Peer-Review
			Week 9	**11%**

Analysis & Design *[Topics: 4, 5]*	**Systems Analysis:** • Find out what is done and why it is done, records all events/activities • Generate models (diagrams) showing who does what, when? • Refines your model on requirements, add more details	**P 3- SYSTEM ANALYSIS & DESIGN**: 1. DFD TO-BE a. Context Diagram b. Logical DFD - Diagram 0 - Child Diagram c. Physical DFD	Wk. 11	**17%**

Stage	Guidelines	Deliverables	Due date	Marks
	• Generate new model showing just what is done (logical model) • Check your analysis with the users **Systems Specifications:** • States what the new system will do (context diagram) • Generate logical diagrams for new systems (DFD level 1, 2) • Defines processes at all levels (lower levels DFD) • Defines all data required (data base design/tables) **Systems Design:** • How the new system will fulfill specifications • Which part will be done by computer / which will be done manually? • What size/type of computer? • Use of networking and communication i.e. web-based / stand-alone ? • Design interfaces (GUI)	- Diagram 0/Child - Process Spec. - Partitioning 2. Structure Chart Design 3. Interface Design (GUI) 4. Teamwork assessment a. Instructor b. Peer-Review		
Implementation *[Topic: 6]*	**Systems development** • Develop system prototype based on system design (P3) • Creation of database tables • Implement the program coding which work & link to database	**P4- SYSTEM PROTOTYPE** 1. Demo System Prototype 2. Final Report 3. Teamwork assessment a. Instructor b. Peer-Review	Wk. 15	**12%**