

Uka Tarsadia University Asha M. Tarsadia Institute of Computer Science and Technology

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Sr. No.	Practical	Submission Date	Signature
1	Identify the requirement and set objectives for the software		
	projects.		
	1) Identify the requirements and list the key objectives for the		
	mobile application project and Stock Inventory System.		
	2) Ensure that each objective follows the SMART criteria.		
	3) Create Epic, Stories and Tasks using Jira software.		
2	Categorization of software projects (select any two projects from		
	annexure – I)		
	1) Study and Identify the requirements, modules and list the key		
	objectives for the		
	mobile application project		
	2) Study the different categories of software projects.		
	3) Categorize projects based on size, complexity, and criticality.		
	4) Justify your categorization decisions.		
3	Study cost-benefit evaluation Techniques and apply for Project		
	Selection.		
	1) Study cost-benefit evaluation Techniques		
\ \	2) Conduct a cost-benefit analysis for both projects by using techniques such as Return on Investment (ROI) and Net Present		
	Value (NPV) to evaluate and compare the projects.		
	3) Make a recommendation on which project should be selected		
	based on the analysis.		
4	Study and apply stepwise project planning activities		
	Task:		
	1) Study the steps and activities involved in project planning.		
	2) Create project planning for a given scenario		
5	Select the most appropriate Process model		
	Task:		
	1) Study the importance of selecting an appropriate process		
	model for a given project.		



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2) Evaluate different process models based on project characteristics. 3) Choose the most appropriate process model for a given scenario. 4) Consider factors such as project size, requirements volatility, and the need for customer involvement. 6 Study and apply software effort estimation techniques. Task: 1) Choose two estimation techniques from the list (e.g., Bottom-up estimating, Expert judgment, Function Point Analysis, COCOMO). 2) Draw up an outline program structure diagram for a given scenario. For each box on your diagram, estimate the number of lines of code needed to implement the routine in a programming language (eg.Java) (Use External input types none, External output types the report, that is, 1, Logical internal file types none, External interface file types payroll file, staff file (timetabling), courses file (timetabling), that is, 3, External inquiry types none) 3) Calculation of SLOC from Albrecht function points. 4)Apply COCOMO to estimate the effort.(Use Table C.7 Assessing scale factors) 7 Consider a software development project with the following activities: Activity A: Define Requirements (Duration: 5 days) Activity B: Design Database (Duration: 10 days) Activity B: Design Database (Duration: 12 days) Activity F: Deployment (Duration: 8 days)				
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2) Calculate Early Start (ES), Early Finish (EF), Late Start (LS),		1		
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Late Finish (LF), and Total Float for each activity.				
3) Determine the Critical Path.		3) Determine the Critical Path.		



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	4) Calculate the total project duration.	
8	Build PERT networks, estimate activity times, and calculate	
	project durations and completion probabilities.	
	1) Consider a software development project with the following	
	activities:	
	A: Define Requirements, B: Design Database, C: Develop	
	Frontend, D: Implement Backend, E: Perform Testing, F:	
	Deployment. The dependencies are as follows: A depends on	
	nothing, B depends on A,C depends on A,D depends on B and	
	C,E depends on D,F depends on E, Construct a PERT network	
	diagram for this project.	
	2) Consider the following PERT estimates for a software	
	development project:	
	Activity A: Optimistic Time = 5 days, Most Likely Time = 8	
	days, Pessimistic Time = 12 days, Activity B: Optimistic Time =	
	6 days, Most Likely Time = 10 days, Pessimistic Time = 15 days,	
A	Activity C: Optimistic Time = 4 days, Most Likely Time = 6	
	days, Pessimistic Time = 8 days	
	Determine the Early Start (ES), Early Finish (EF), Late Start	
	(LS), Late Finish (LF) times, total project duration, and the	
	probability of completing the project within 20 days.	
9	Study the principles of resource allocation and scheduling in	
	project management.	
10	Study the challenges and strategies in managing people in	
	software development projects.	