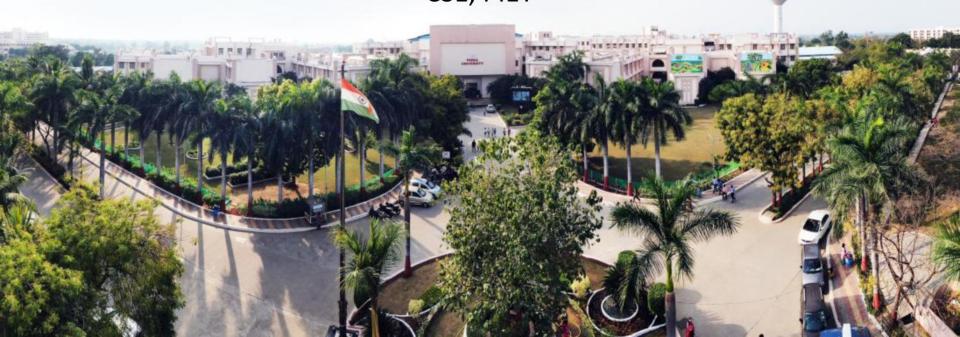


SOFTWARE ENGINEERING LABORATORY (203105303) (Experiments)

Mr. Nirav Patel, Assistant Professor CSE, PIET







Experiment-4

Develop Software project management planning (SPMP) for the specified module.





Aim: Develop Software project management planning (SPMP) for the specified module.

Objectives: To prepare timeline or schedule of project development based on requirements.





Project Scheduling & Tracking

It is an action that distributes estimated effort across the planned project duration, by allocating the effort to specific software engineering tasks

Scheduling Principles

- Compartmentalization
- Interdependency
- Time Allocation
- Effort Validation
- Define Responsibilities
- Define Outcomes
- Define Milestones







Scheduling methods

- •Two project scheduling methods that can be applied to software development.
 - Program Evaluation and Review Technique (PERT)
 - Critical Path Method (CPM)
- Both techniques are driven by information already developed in earlier project planning activities:
 - estimates of effort
 - a decomposition of the product function
 - the selection of the appropriate process model and task set
 - decomposition of the tasks that are selected







Scheduling methods Cont.

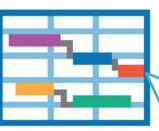
- •Both **PERT** and **CPM** provide quantitative tools that allow you to:
 - Determine the critical path—the chain of tasks that determines the duration of the project
 - Establish "most likely" time estimates for individual tasks by applying statistical models
 - Calculate "boundary times" that define a "time window" for a particular task







Gantt chart



A Gantt chart, commonly used in project management, is one of the most popular and useful ways of showing activities (tasks or events) displayed against time.

Each activity is represented by a bar; the position and length of the bar reflects the start date, duration and end date of the activity. This allows you to see at a glance:

- What the various activities are
- When each activity begins and ends
- How long each activity is scheduled to last
- Where activities overlap with other activities, and by how much
- The start and end date of the whole project

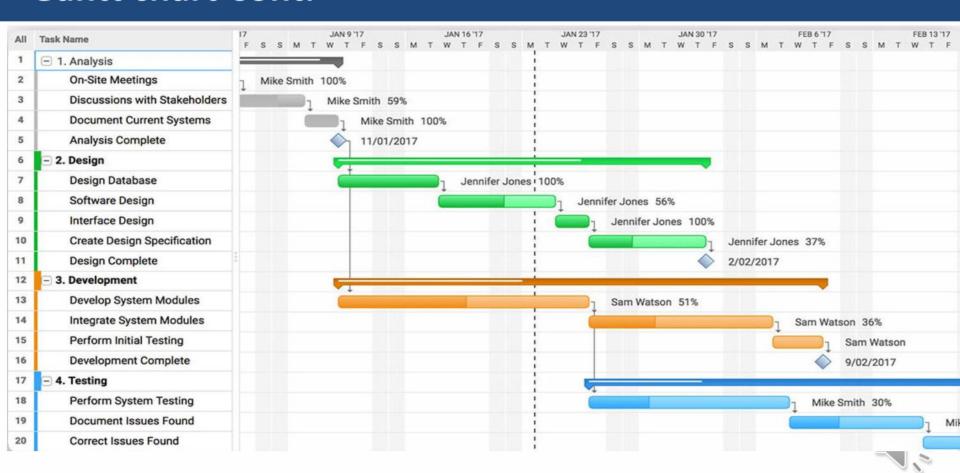




DIGITAL LEARNING CONTENT



Gantt chart Cont.







Experiment Demonstration