SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107
Accredited by NAAC-UGC with 'A' Grade
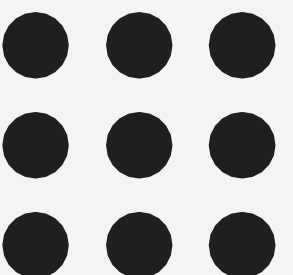**Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai**

Department of Artificial Intelligence and Data Science

23ITT203 Object Oriented Software Engineering

Project Scheduling

SOWMIYA R/AP/AI&DS/23ITT203 OBJECT ORIENTED SOFTWARE ENGINEERING/SNSCE

What is Project Scheduling?

Project Scheduling is the process of deciding:

- **What** tasks need to be done,

- **In what order** they should be done,

- **Who** will do them,

- **When** they will be done.

- It helps in managing **time**, **resources**, and **workload** effectively.
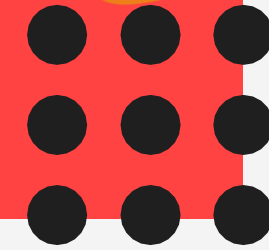
Why is Project Scheduling Important?

- Ensures timely delivery of software.

- Helps in resource planning.

- Avoids bottlenecks and delays.

- Provides a clear roadmap for team members.

- Helps in tracking progress and adjusting plans.

Basic Terms in Project Scheduling

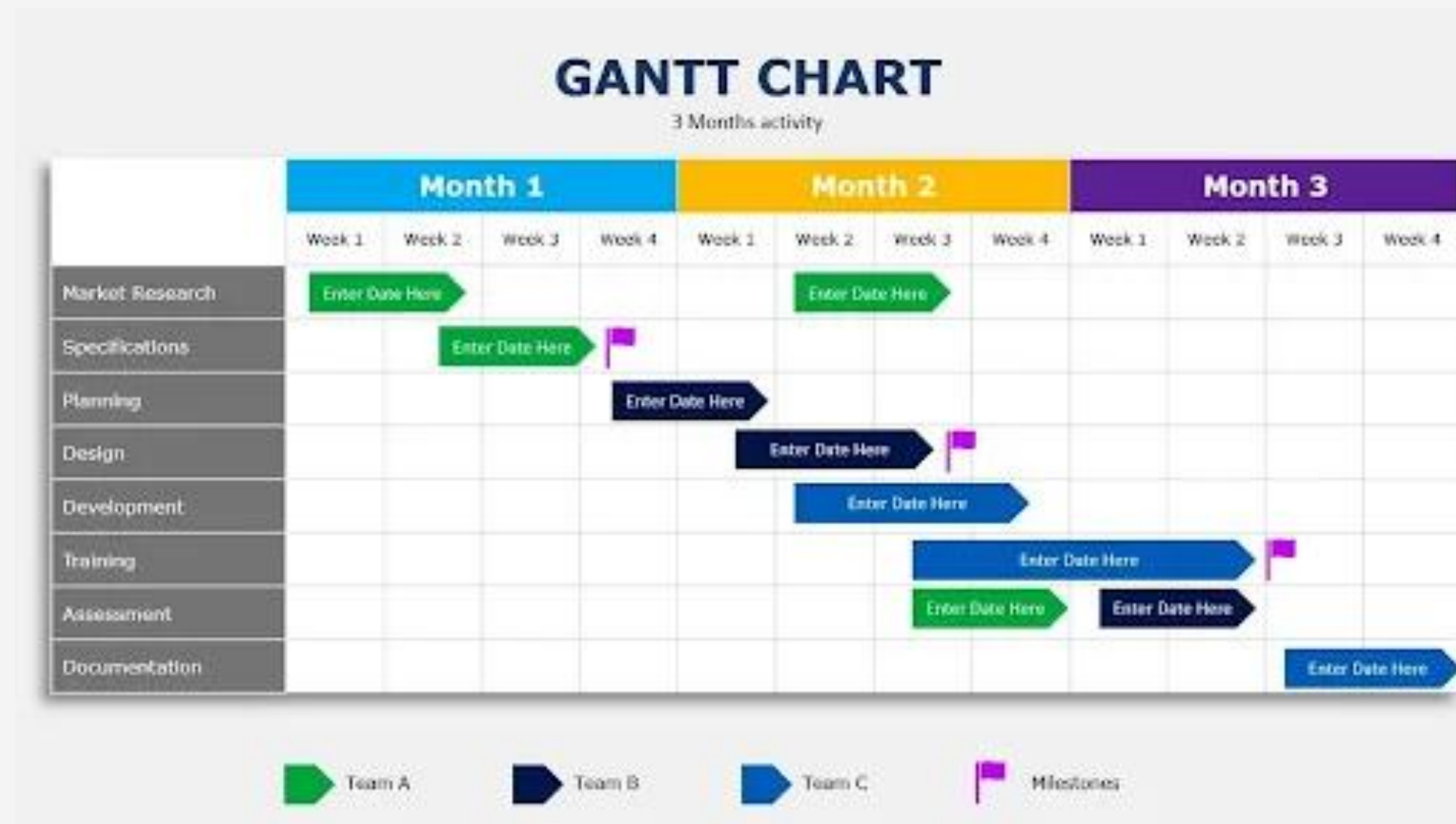| Term	Description
Activity	A task or work that needs to be completed
Milestone	A significant event or achievement in the project
Task Duration	Time required to complete a task
Dependency	A task that relies on another task to be completed first
Schedule	A timeline that shows when tasks will be done

Steps in Project Scheduling

- **Identify tasks/activities**
  Break the project into small manageable tasks.
- **Estimate duration**
  How much time is needed for each task?
- **Determine dependencies**
  Which tasks depend on others?
- **Assign resources**
  Who will do each task?
- **Create a schedule**
  Use charts (like Gantt charts) to visualize the schedule.
- **Monitor and update**
  Track progress and make changes if needed.
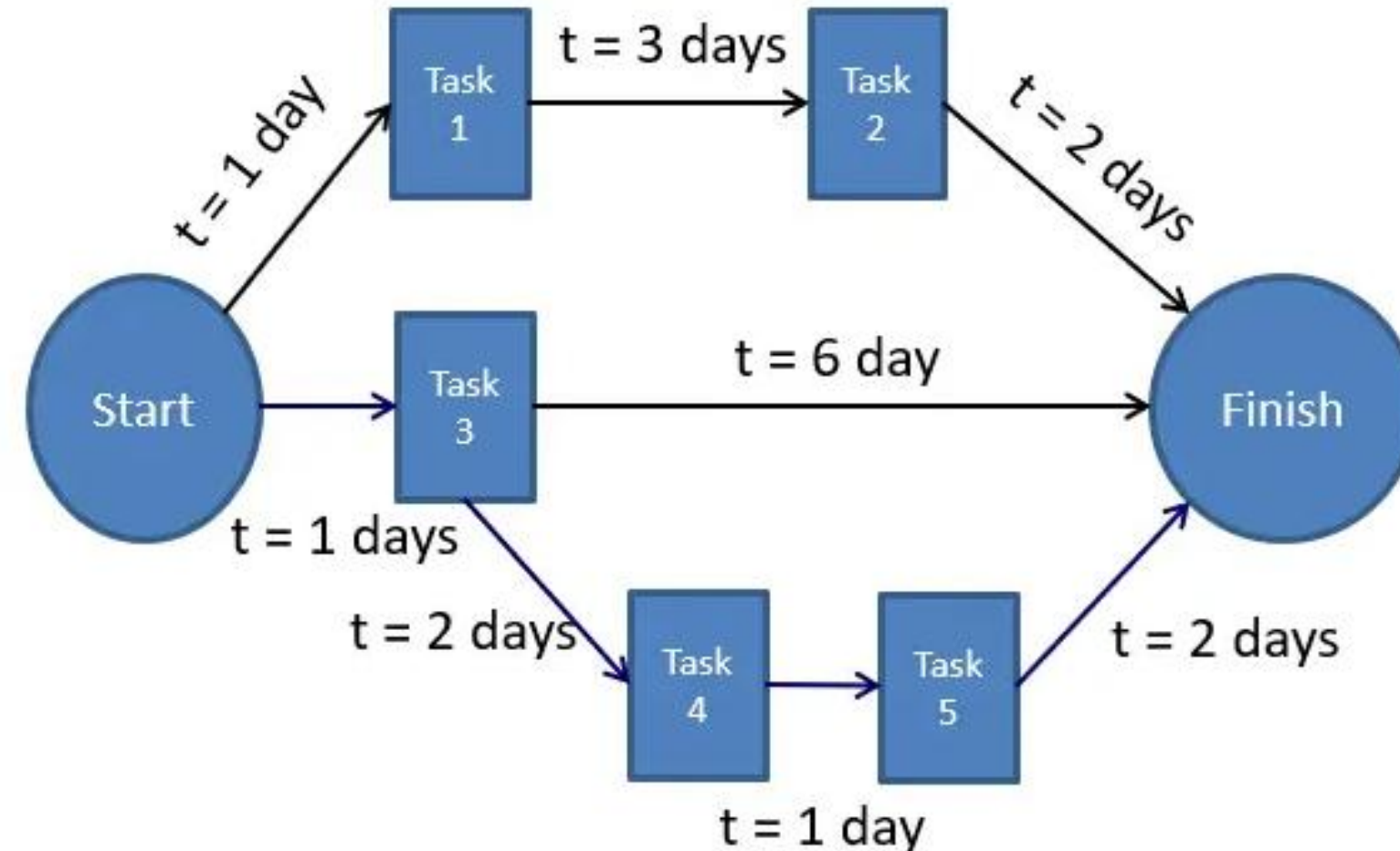
Tools Used in Project Scheduling

1. Gantt Chart

- A bar chart that shows tasks vs. time.
- Easy to understand and commonly used.

Tools Used in Project Scheduling

2. PERT Chart (Program Evaluation and Review Technique)
- A flowchart that shows task dependencies.
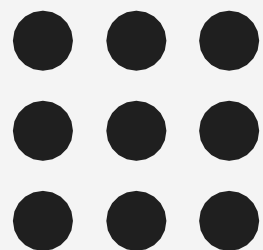- Focuses on time estimation and critical paths.

Program Evaluation and Review Technique (PERT) Chart

Tools Used in Project Scheduling

3. Critical Path Method (CPM)

- Helps identify the **longest path** of dependent tasks — the critical path.
- Any delay in these tasks will delay the whole project.

Critical Path = 4 Days

SOWMIYA R/AP/AI&DS/23ITT203 OBJECT ORIENTED
SOFTWARE ENGINEERING/SNSCE