UNIT II

Project Planning

Project planning is a discipline addressing how to complete a project in a certain timeframe, usually with defined stages and designated resources. One view of project planning divides the activity into these steps:

- setting measurable objectives
- identifying deliverables
- scheduling
- planning tasks

Why is project planning important?

Project planning is important at every phase of a project. It lays out the basics of a project, including the following:

- scope
- objectives
- goals
- schedule

What are the components of a project plan?

The three major parts of a project plan are the scope, budget and timeline. They involve the following aspects:

- **Scope:-** The scope determines what a project team will and will not do. It takes the team's vision, what stakeholders want and the customer's requirements and then determines what's possible. As part of defining the project scope, the project manager must set performance goals.
- **Budget:-** Project managers look at what manpower and other resources will be required to meet the project goals to estimate the project's cost.
- Timeline:- This reveals the length of time expected to complete each phase of the project and includes a schedule of milestones that will be met.



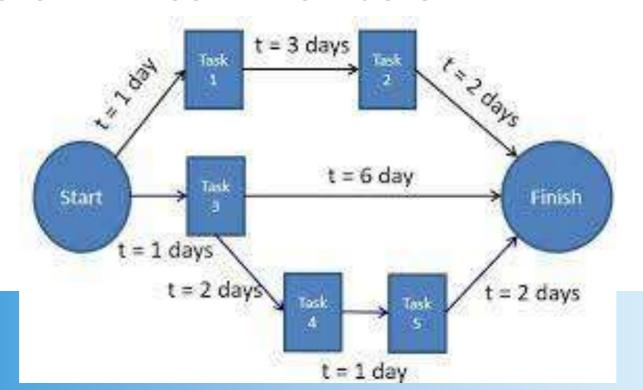
7 Steps of Project Planning

- 1. Goals and project objectives
- 2. Success metrics
- 3. Stakeholders and roles
- 4. Scope and budget
- 5. Milestones, deliverables, and project dependencies
- 6. Timeline and schedule
- 7. Communication plan

Program Evaluation Review Technique (PERT)

PERT is a project management planning tool used to calculate the amount of time it will take to realistically finish a project.

PERT charts are used to plan tasks within a project — making it easier to schedule deliverables and coordinate with team members.



Gantt Chart

- A Gantt chart is a project management chart that allows project managers to create a project schedule.
- It shows the order in which project tasks will be completed, when they're due, their duration among other details.
- Every Gantt chart has two main parts, a grid or task list on the left side and a project timeline on the right.



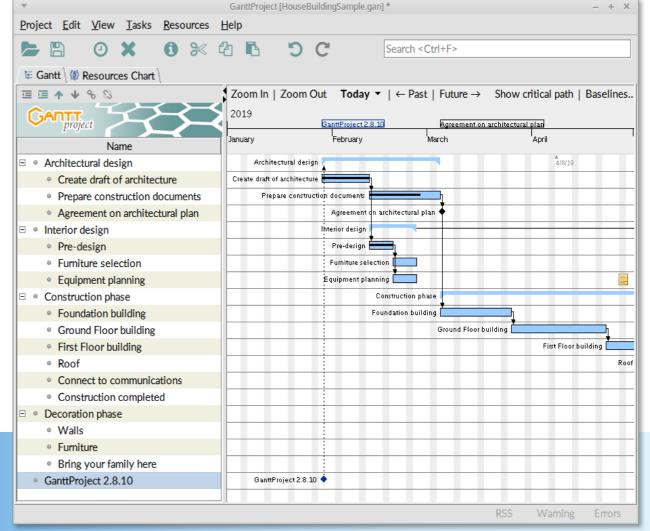
A Gantt chart is a well-known bar chart and an excellent project management tool used to work with tasks, develop project plans, schedule, and track progress.

This chart gives you a clear visual image in a single document of all the tasks in the project, their sequence on a timeline, milestones, their start and end dates, deadlines, and a general overview of how the project evolves. Everyone throughout the project can easily understand where the team is, what has been done so far, what is still pending, and what is the status of project completion.

Gantt Project

reports and more.

GanttProject is a project management software designed to help businesses create schedules, assign tasks and resources, view project status



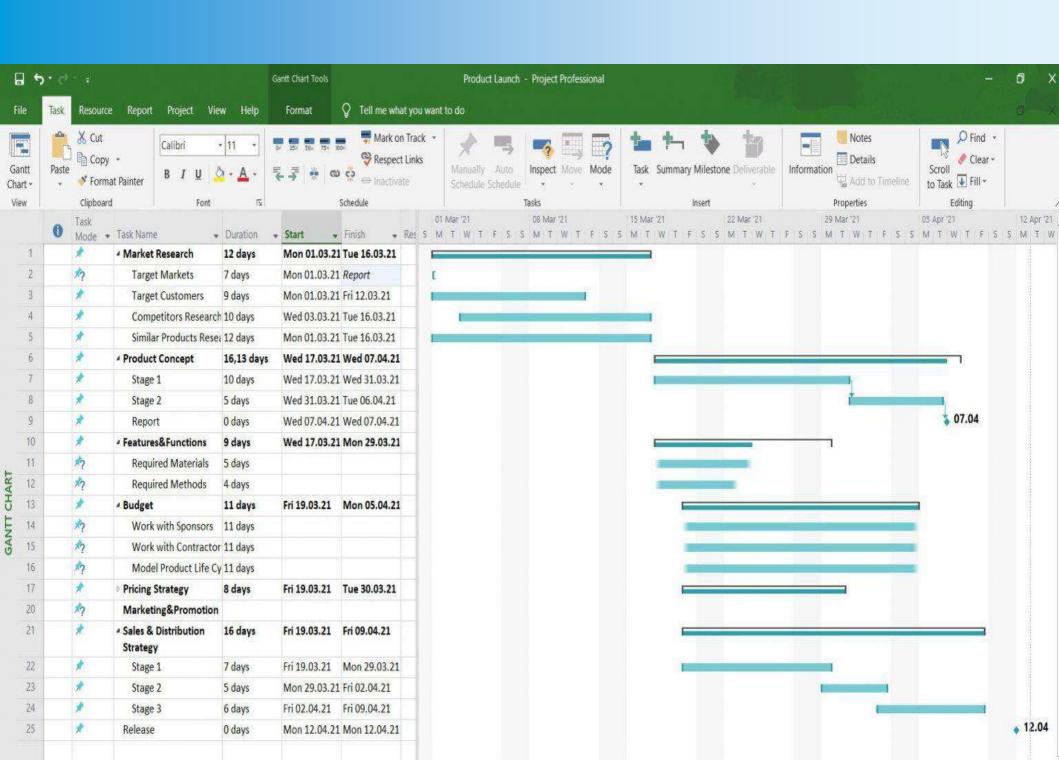
Microsoft's project management sw

Microsoft Project is a project management tool designed for managing project dependencies and costs effectively, streamlining tasks, and allocating resources.

Microsoft's project management software comes with an Excel-like interface, making it easy to navigate for those who are used to the application.

Microsoft Project

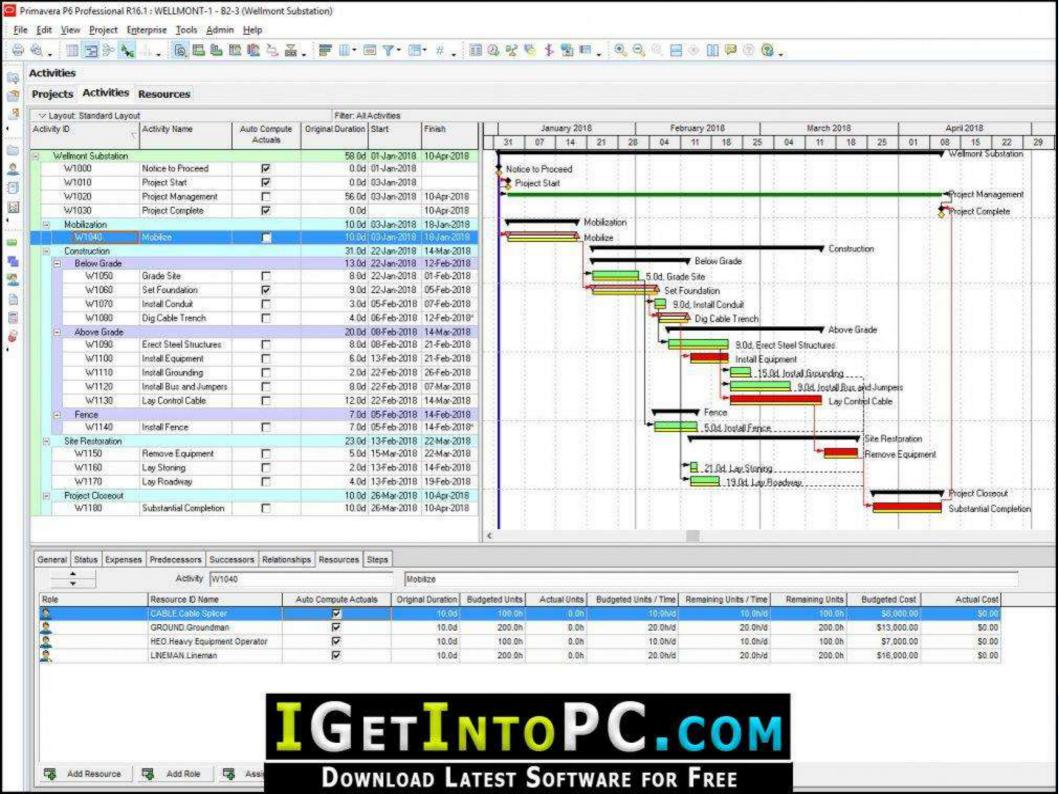
					Gantt Chart Tools				Proc	Product Launch - Project Professional								1-15
Fil	ė	Task	Resource	Report Project Vie	w Help	Format	Q Tell me v	what you want	to do									
Gar Chai	tt t=	Paste	Cut Copy Format	n 7 H	- 11 - 5 - A -		100%	on Track • ect Links ivate		ly Auto le Schedu		Move		Task		ary Milesto		verable
			Task							15 Fe	b '21		22 Feb			01 Mar '		
	6			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Duration	→ Start	→ Finish	 Predecesso 	ors 🔻	S M	TWT	F S S	MT	WT	FS	5 M T	WT	F S S
	1		M?	Market Research														
	2		M	Target Markets														
	3		*	Target Customers														
	4		办	Competitors Research														
	5		N?	Similar Products Resear	c													
	6		M	Product Concept														
	7		M	Stage 1														
	8		*?	Stage 2														
	9		*?	Features&Functions														
	10		M	Required Materials														
	11		*	Required Methods														
ARI	12		办	Strategic Features														
£	13		*?	Budget														
E	14		*?	Work with Sponsors														
GANTT CHART	15		M	Work with Contractors														
:30 =	16		*	Model Product Life Cyc	le													
	17		*?	Pricing Strategy														
	18		办	Plan A														
	19		办	Plan B														
	20		M?	Marketing&Promotion														
	21		M?	Sales & Distribution Str														
	22		M?	Stage 1														
	23		1/2	Stage 2														
	24		*?	Stage 3														
	25		1	Start to Mass Production	<u> </u>													
	26	1		Release														
				92500 THE WILL	4									DX.				

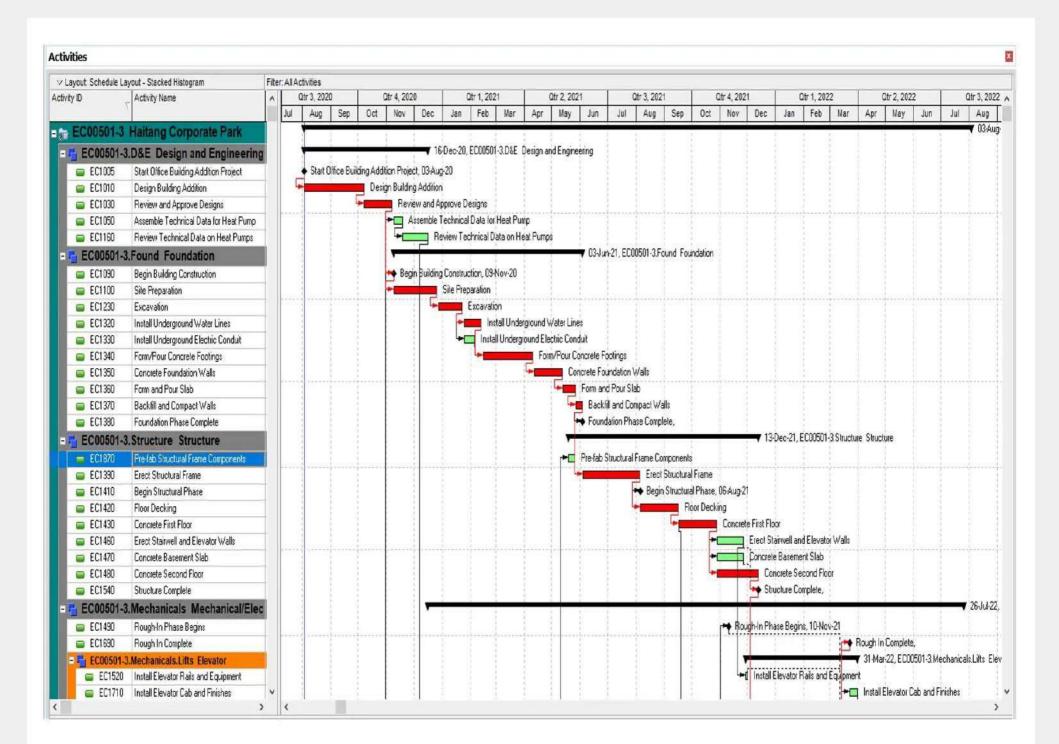


Premavera Project Management sw

- Oracle Primavera P6 is a project, program and portfolio management tool that's used for planning, managing and executing your project work.
- Primavera is an enterprise project portfolio management software.
- It includes project management, scheduling, risk analysis, opportunity management, resource management, collaboration and control capabilities, and integrates with other enterprise software such as Oracle and SAP's ERP systems.

Primavera was launched in 1983 by Primavera





Objectives of Activities Planning

- 1. Feasibility Assessment
- 2. Reseource Allocation
- 3. Detailed Costing
- 4. Motivation
- 5. Co-ordination

Project Schedules

- 1. Ideal Activity Plans
- 2. Activity Risk Analysis
- 3. Resource Allocation
- 4. Schedule Production

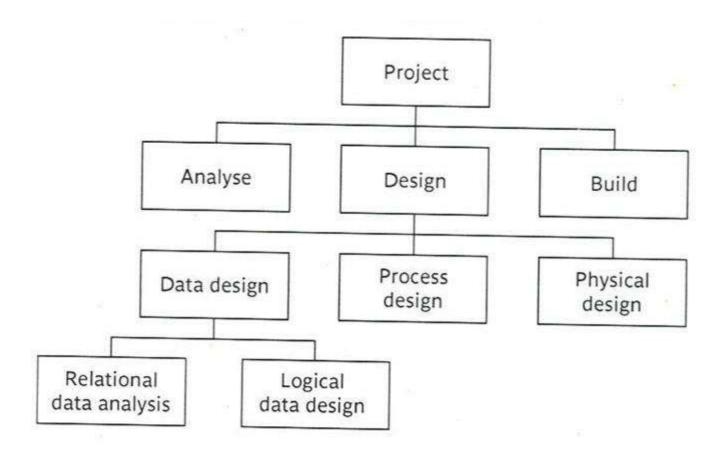
Activities

Three Approaches:-

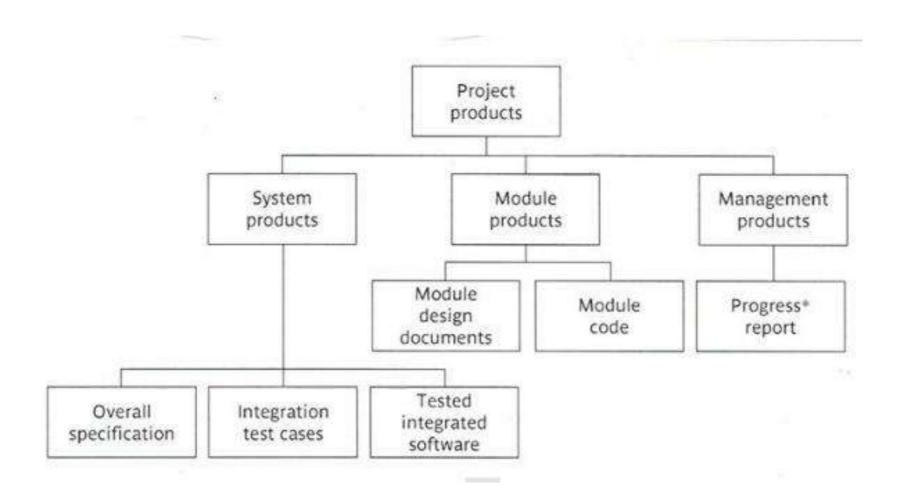
- 1. The Activity Based Approach
- 2. Product Based Approach
- 3. The Hybrid Approach

The Activity Based Approach

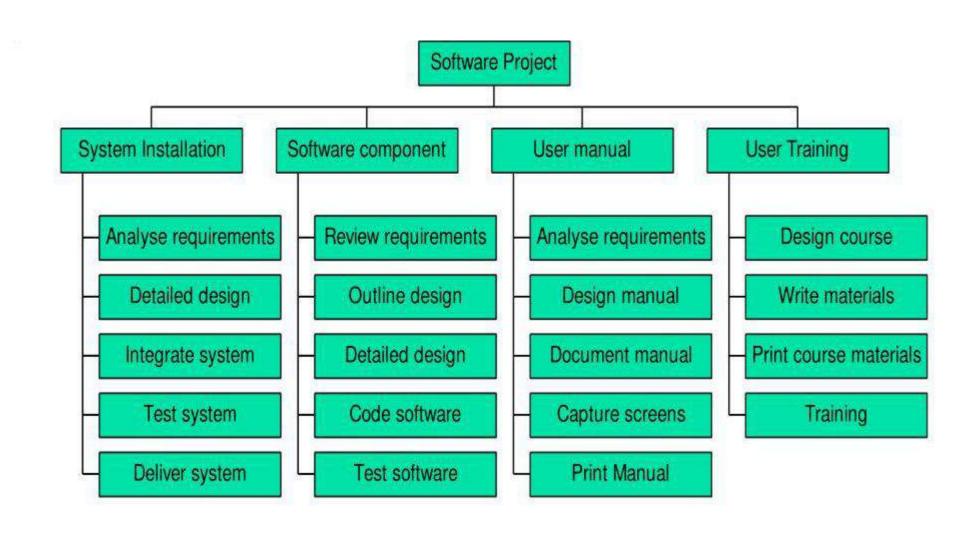
- WBS



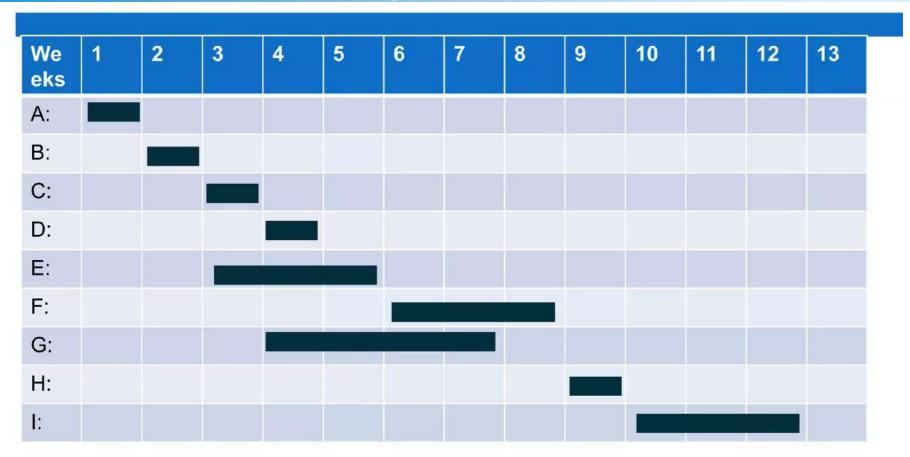
Product Based Approach



Hybrid Approach



Sequencing and Scheduling



A: Overall Design

E:Code Module 1

B: Specify Module 1

F:Code Module 3

C: Specify Module 2G:Code Module 2

D: Specify Module 3H:Integration Testing

I: System Testing