

The management of the projects with MS Project



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What is Microsoft Project?

- Microsoft Project is a project management software program developed and sold by Microsoft
- Designed to assist project managers in developing plans, assigning resources to tasks, tracking progress, managing budgets and analyzing workloads
- The application creates critical path schedules, and critical chain which can be visualized in a Gantt chart
- Available currently in two editions, Standard and Professional

Short History of MSP

- The first version of Microsoft Project was released for DOS in 1984 by a company working for Microsoft
- Microsoft bought all rights to the software in 1985
- During 1980's couple of versions for DOS were released
- The first Windows version in 1990
- During 1990's there were also versions for Mac
- Subsequent versions – V3 (1992), V4 (1993), 1995,1998, 2000, 2002, 2003, 2007, 2010 and 2013

Microsoft Project Overview

- MS project is a project management software program
- MS project is developed and sold by Microsoft
- MS project requires software or hardware installations



The purpose of program MSP

- List each task necessary to complete a project in the order they should be performed
- Assign start and finish dates to tasks or let the program set them for you by specifying the duration of the task
- Display the tasks graphically over a time line to get an overall view of the project

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- Assign workers, contractors and their resources to tasks and print their schedules
- Compute the hours and cost necessary to complete a task or the entire project
- Monitor a project's progress and compare it to your original estimate
- Analyze such items as cost, hours, slack time, resource allocation etc. using tables and graphs

MSP Offers

- MSP enables you to stay informed and control:
 - Project work
 - Schedules
 - Finances
- And to keep project teams aligned



Scheduling Techniques

– Mathematical Analysis

- Network Diagrams

- PERT

- CPM

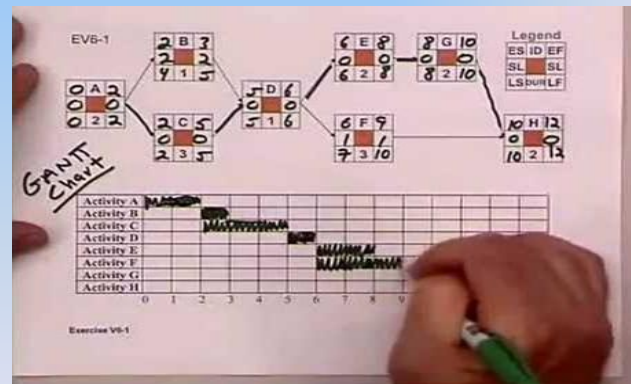

- GERT

– Bar Charts

- Milestone Chart

- Gantt Chart

Task ID	Duration	Dependency
A	7	
B	3	
C	6	A
D	3	B
E	3	D,F
F	2	B
G	3	C
H	2	E,G



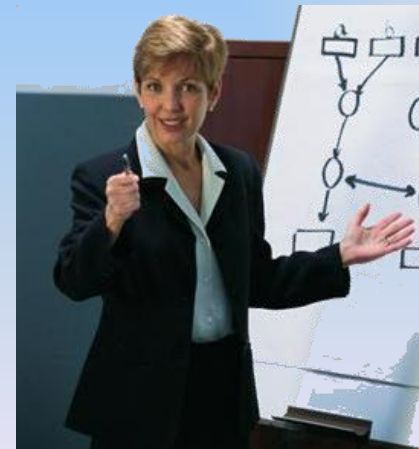
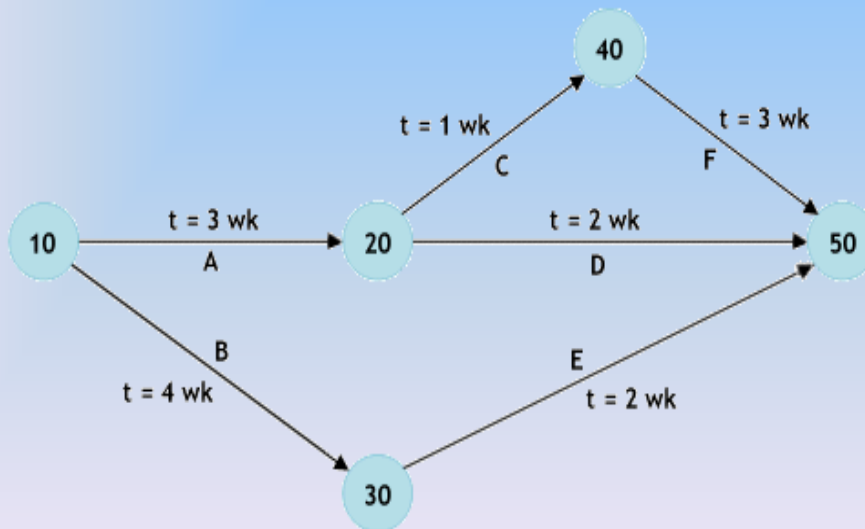
Mathematical Analysis

- PERT
 - Program Evaluation and Review Technique
- CPM
 - Critical Path Method
- Sometimes treated synonymously
- All are models using network diagrams



What is PERT?

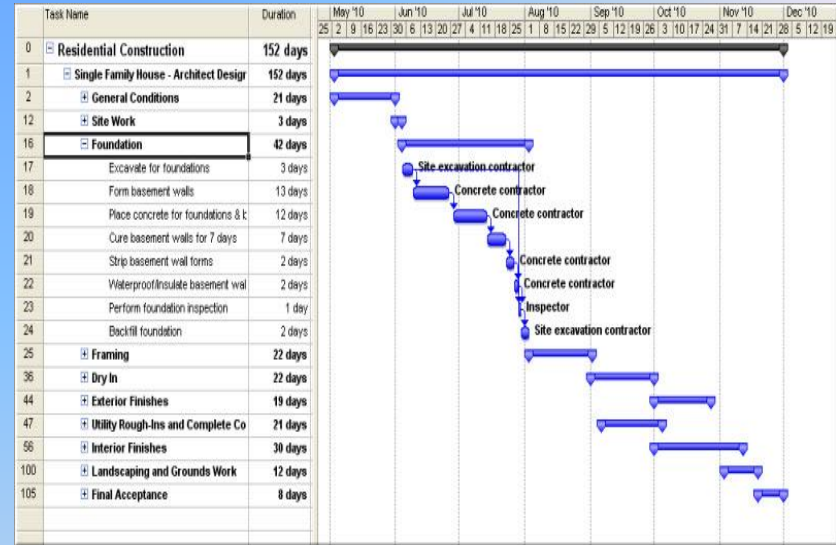
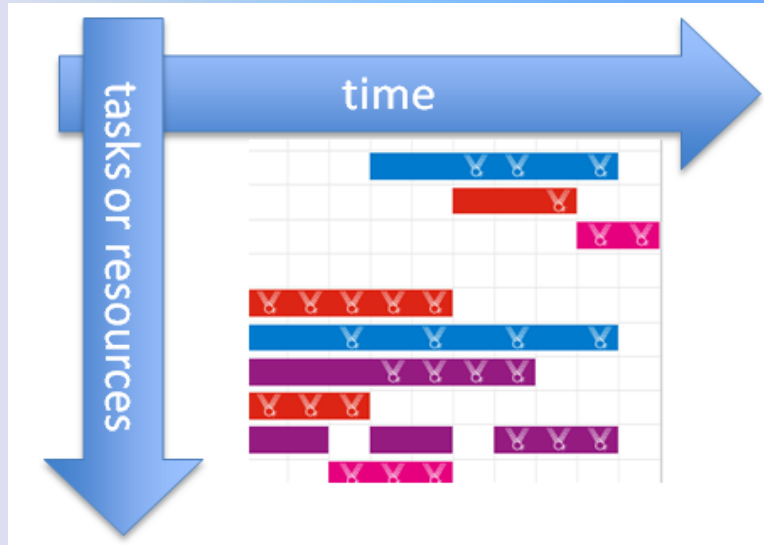
Program (Project) Evaluation and Review Technique (PERT): is a project management tool used to schedule, organize, and coordinate tasks within a project. It is basically a method to analyze the tasks involved in completing a given project, especially the time needed to complete each task, and to identify the minimum time needed to complete the total project.



What is Gantt Chart?

- A GANTT chart is a type of bar chart that illustrates a project schedule.
- After the PERT/CPM analysis is completed, the following phase is to construct the GANTT chart and then to re-allocate resources and re-schedule if necessary.
- GANTT charts have become a common technique for representing the phases and activities of a project work breakdown structure.
- It was introduced by Henry Gantt around 1910 – 1915.

Gantt Chart



Advantages and Disadvantages

- Advantages

- Simple
- Good visual communication to others
- Task durations can be compared easily
- Good for scheduling resources

- Disadvantages

- Dependencies are more difficult to visualise
- Minor changes in data can cause major changes in the chart

Enhancements

- Microsoft Project's capabilities were extended with the introduction of:
 - Microsoft Office Project Server
 - Microsoft Project Web Access
- Also, newer versions provide for cross-functionality with products like:
 - PowerPoint
 - Visio



Thank you

- Thank you for your participation.
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