

Practical No :- 18

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Aim :- Using a Gantt chart to manage a project schedule.

* Theory -

A Gantt chart is a type of bar chart that illustrates a project schedule and shows dependency relationships between activities and current schedule status.

Gantt charts are a visual view of tasks displayed against time. They represent critical information such as who is assigned to what, duration of tasks, and overlapping activities in a project.

All in all, Gantt charts are the perfect allies for planning, scheduling, and managing a project.

* Making a Gantt chart -

We should take the following steps to create a Gantt chart schedule.

1) List down all the tasks/activities of your project event.

- 2) Estimate the duration for each of the tasks.
- 3) Identify the dependency between the tasks.
- 4) Start drawing the Gantt chart schedule by connecting the activities in accordance with the predecessors for each task.
- 5) Insert the milestone tasks at right places in the flow.
- 6) Assign the early start date of the first tasks in the network, all the start date and end dates of subsequent tasks will be calculated.

* Aspects of a good Gantt chart -

A Gantt chart should include all of the following data points.

- 1) The project start date
- 2) The name or description of each project task.
- 3) Resources assigned to each task
- 4) A start and end date for every task.
- 5) The duration of every task.
- 6) The relationship betⁿ task
- 7) The project end date.

* The benefits of using a Gantt chart for project management:-

Using a Gantt chart for project management

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- 1) Break down a project into more manageable chunks.

- 2) Easily view task dependencies and relationships.
- 3) Allow team members to view the relationship between their work and others.
- 4) Visualize and monitor the progress of tasks over time.
- 5) See constraints and conflicts such as one resource being assigned to two task at once.
- 6) Identify the critical path of the project.

* Application of Gantt charts -

- 1) The sheer simplicity and ease-of-access of all relevant information make Gantt charts an ideal choice for teams to use them for organizing their schedules.
- 2) Due to this, Gantt charts are widely used in project management. IT & development teams.
- 3) Marketing, engineering, product launch, manufacturing teams can also use gantt charts to get an overview of how things are rolling on the work front.

* Conclusion -

Gantt charts are very useful tool for scheduling and have become one of the most popular methods for showing project schedules. It is very easy to read and understand. Various software packages are available to draw a schedule using Gantt chart.

