Project scheduling.

Why project scheduling!

Following are the cerues for which a project must be scheduled

*) Project is not completed on schedule
*) changing customer Requirement
*) Technical difficulty are generated
*) Miss Communication among project management
*) Essential Sfw & Hfw may be delivered late.
   late.
*) on large project Sfw engineer perform multiple tasks parallel.
*) Risk is not considered at begning of project -

To solve the above cerues, project scheduling must be required.

What is project scheduling?

*) It is the Responsible activity of project Manager.
*) Project Manager seperate total work task in project into different activities called work breandown structere (WBS).
*) Project Manager estimate time & Resource Required to Complete activities
*) Effective project scheduling leads to sucess of project, Reduce Cost & increased customer satisfaction.

Work Breakdown Structure.

Work Breakdown Structure (WBS)

*) It is used to recursively decomposed a given set of activities into smaller activities.
*) It provides a notation for representing the activites, subtask sub-activities & tasks need to be carried out in order to solve a problem.
*) The root of the Tree is labeled by Project name.
*) Each node of the tree is broken down into smaller Activities called children.
*) The time frame when each Activity is to be performed is to be determined
*) The end of each Activity is called Milestone.

Techniques of Project scheduling.

CPM (Critical path)
→ By forword pass
→ By Backword pass

PERT (Program Evaluation Review Technique)
- most likely time (M)
- optimise time (b)
- Pessimistic time (d) (c)

Most likely :- Actual time which it
optimise :- The activity completed in less time
pessimistic :- Activity taking longer time than most likely time.

Single expected duration (te) = $\frac{a + 4m + b}{6}$.