

Operation Research - II

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Name -

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Project Name - Operation Research - II

Project Title - Networks scheduling & PERT CPM.

PRN -

Center no. -

13/20

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Network Scheduling and PERT CPM.

Basically, CPM [critical path method] and PERT [programme Evaluation Review] technique] are project management techniques which have been created out of the need of western industrial & military establishments to plan, schedule & control complex projects.

PERT is that technique of project management which is used to manage uncertain (i.e. time is not known) activities of any project management which is used to manage only certain (i.e. time is known) activities of any project.

Difference betⁿ PERT & CPM

1] Project Evaluation & Review Technique (PERT)

PERT is appropriate technique which is used for the projects where the time required or needed to complete different activities are not known.

PERT is majority applied for scheduling, organization & integration of different tasks within a project. It provides the blue print of project & is efficient technique for project evaluation.

② Critical path method (CPM)

CPM is a technique which is used for the projects where the time needed for completion of project is already known. It is majority used for determining the approximate time within which a project can be completed. Critical path is the largest path in project management which always provide minimum time taken for completion of project.

Difference betⁿ PERT & CPM.

PERT	CPM
① PERT is that technique of project management which is used to manage	CPM is that technique of project management which is used to manage

uncertain activities of any project.

only certain activities of any project.

② It is event oriented technique which means that network is constructed on the basis of event.

It is activity oriented technique which means that network is constructed on the basis of activities.

③ It is a probability model.

It is a deterministic model.

④ It majorly focuses on time as meeting time target overestimation of percent completion is more important.

~~It~~ is majorly ~~not~~ focuses on time cost trade off as minimizing is more important.

References -

- ① Kelley, Sames, critical path planning.
- ② Santiago, sees "critical path method."
- ③ programme evaluation & review technique or PERT chart, a planning method.