



University OF Hilla
Engineering Faculty
Medical Device Technology Engineering



PROJECT MANAGEMENT

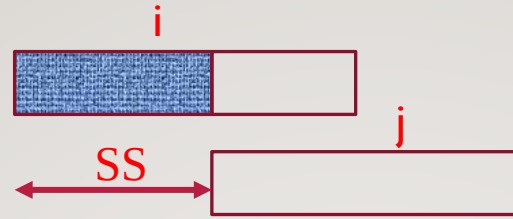
Lecture 4

ASST. LEC. MORTEZA ABBAS IMRAN



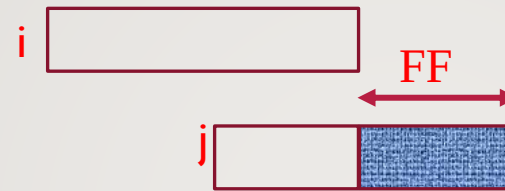
PRECEDENCE DIAGRAMING

(a) Start -to- Start (SS) Lag



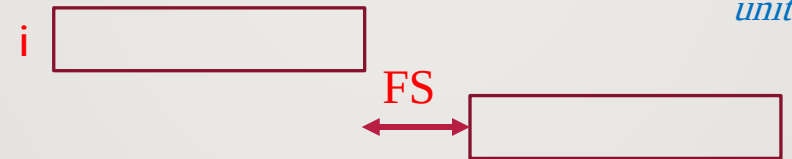
*Activity *j* cannot start until activity *i* has been in progress for at least SS time unit*

(b) Finish -to- Finish (FF) Lead



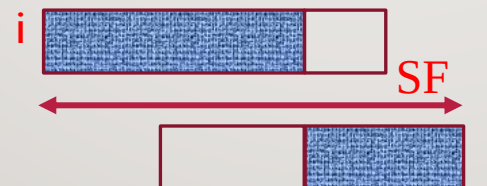
*Activity *j* cannot finish until at least FF time unit after the completion of activity *i**

(c) Finish -to- Start (FS) Lag



*Activity *j* cannot start until at least FS time unit after the completion of activity *i**

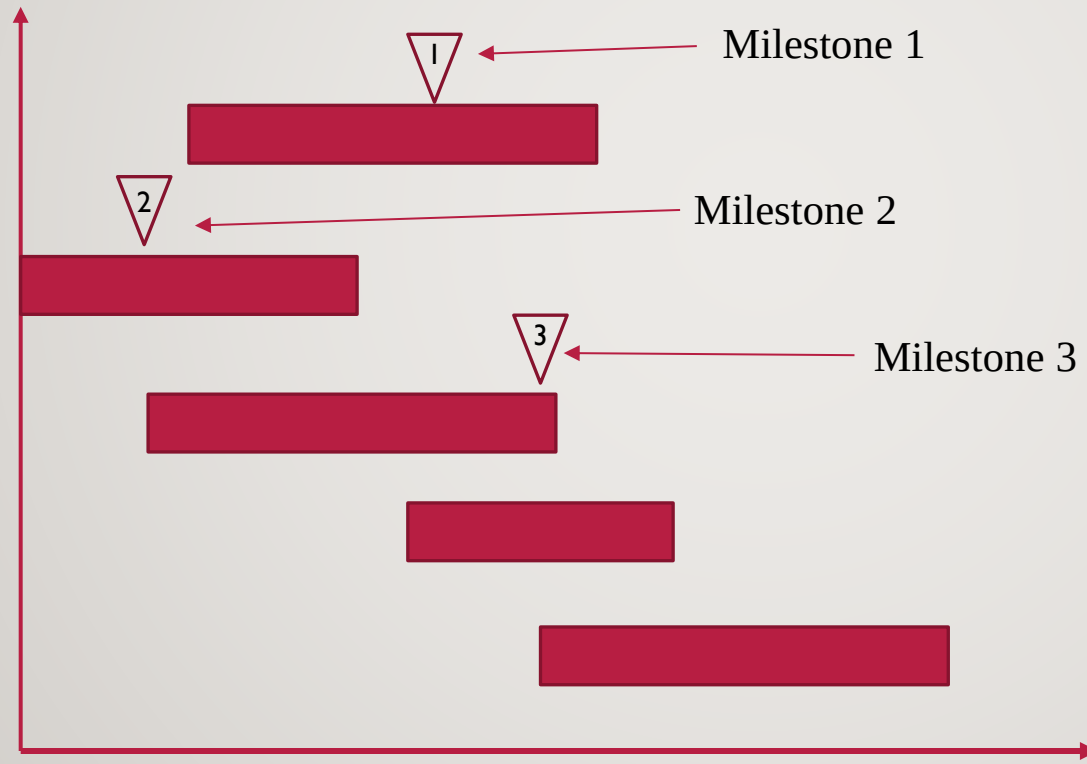
(d) Start -to- Finish (SF) Lead



*There must be at least FS time units between the start of activity *i* and the completion of activity *j**

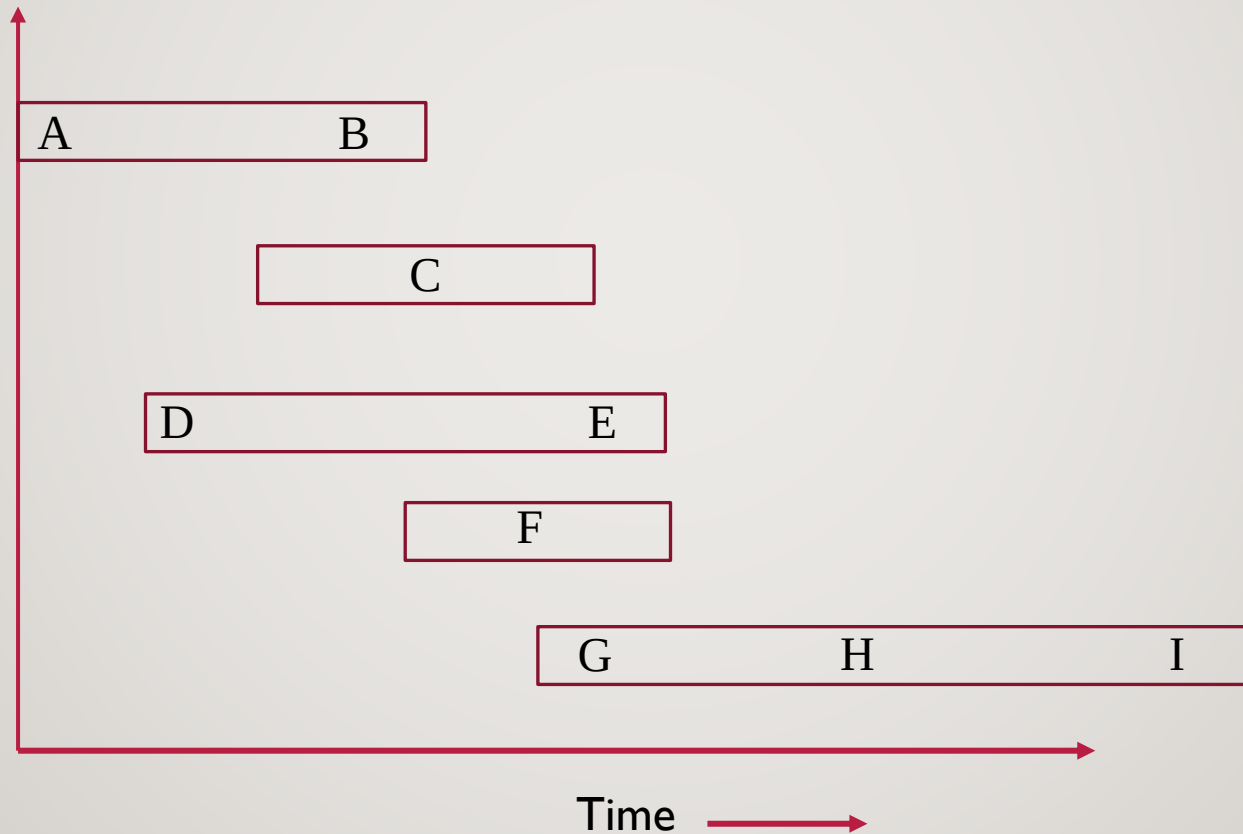
Project Presentation Graphics

- **Milestone Charts:** its Gantt chart with significant milestones indicated by special symbols. With milestone clearly shown, the project manager can easily evaluate the status of the project and take corrective actions.



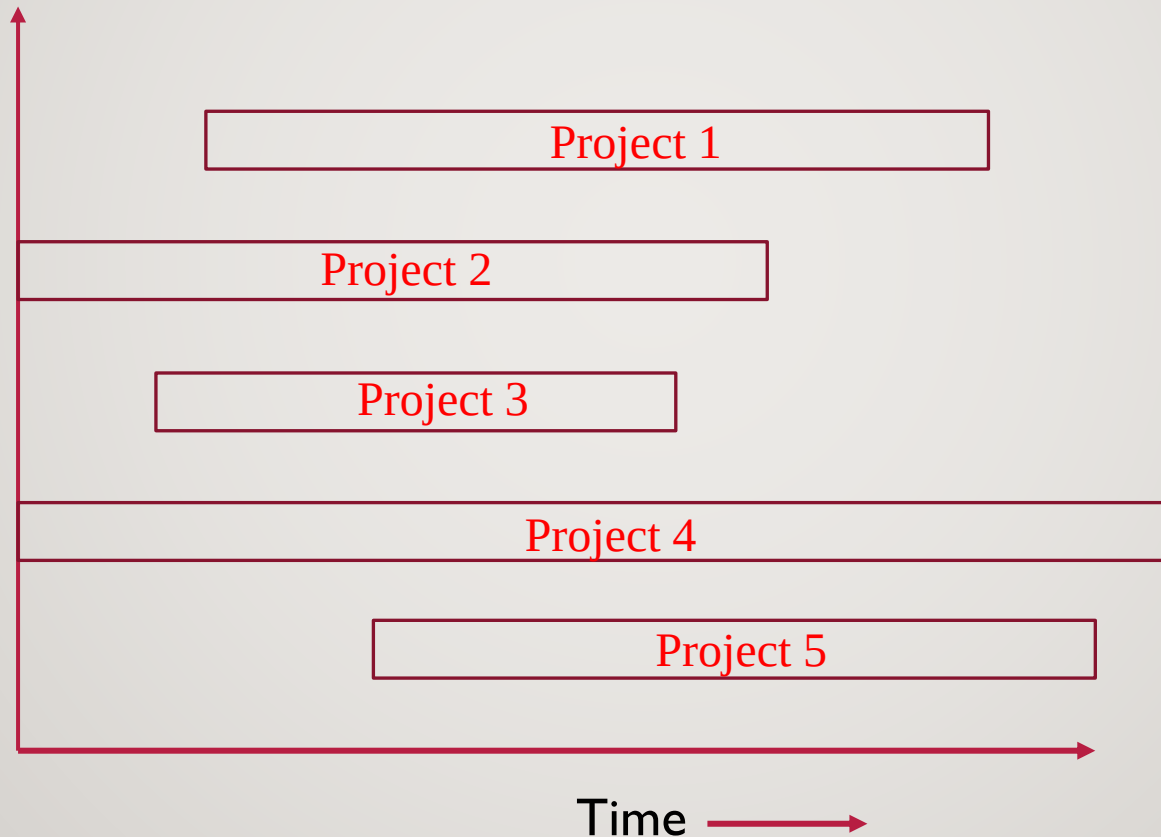
Project Presentation Graphics

- **Bars with combined activities:** In some cases, its desirable to present the project information a concise form



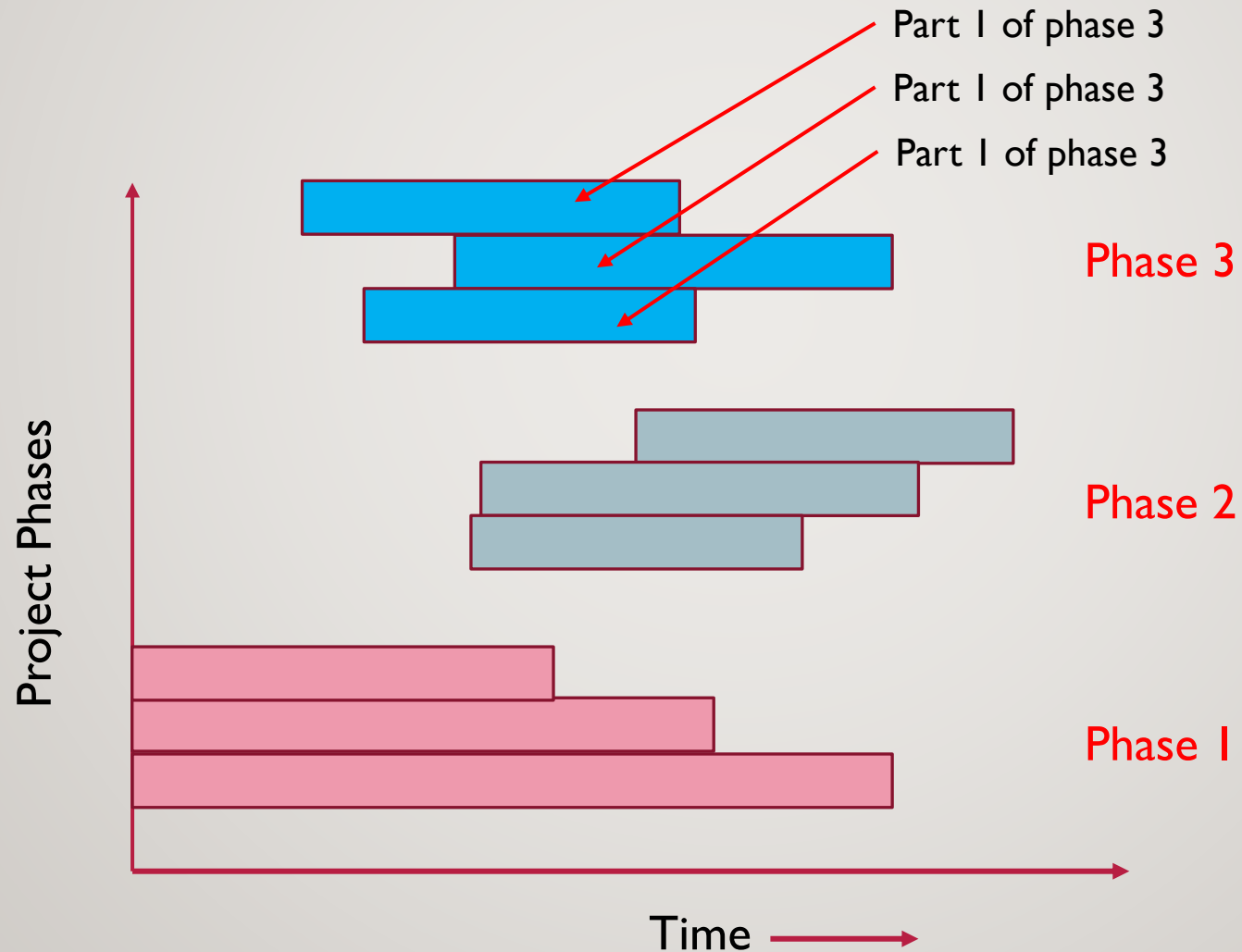
Project Presentation Graphics

- **Multiple Projects Charts:** In project-driven organizations, there are usually several projects going on simultaneously. These projects may be need to be shown in single chart to illustrate their schedule relationship.



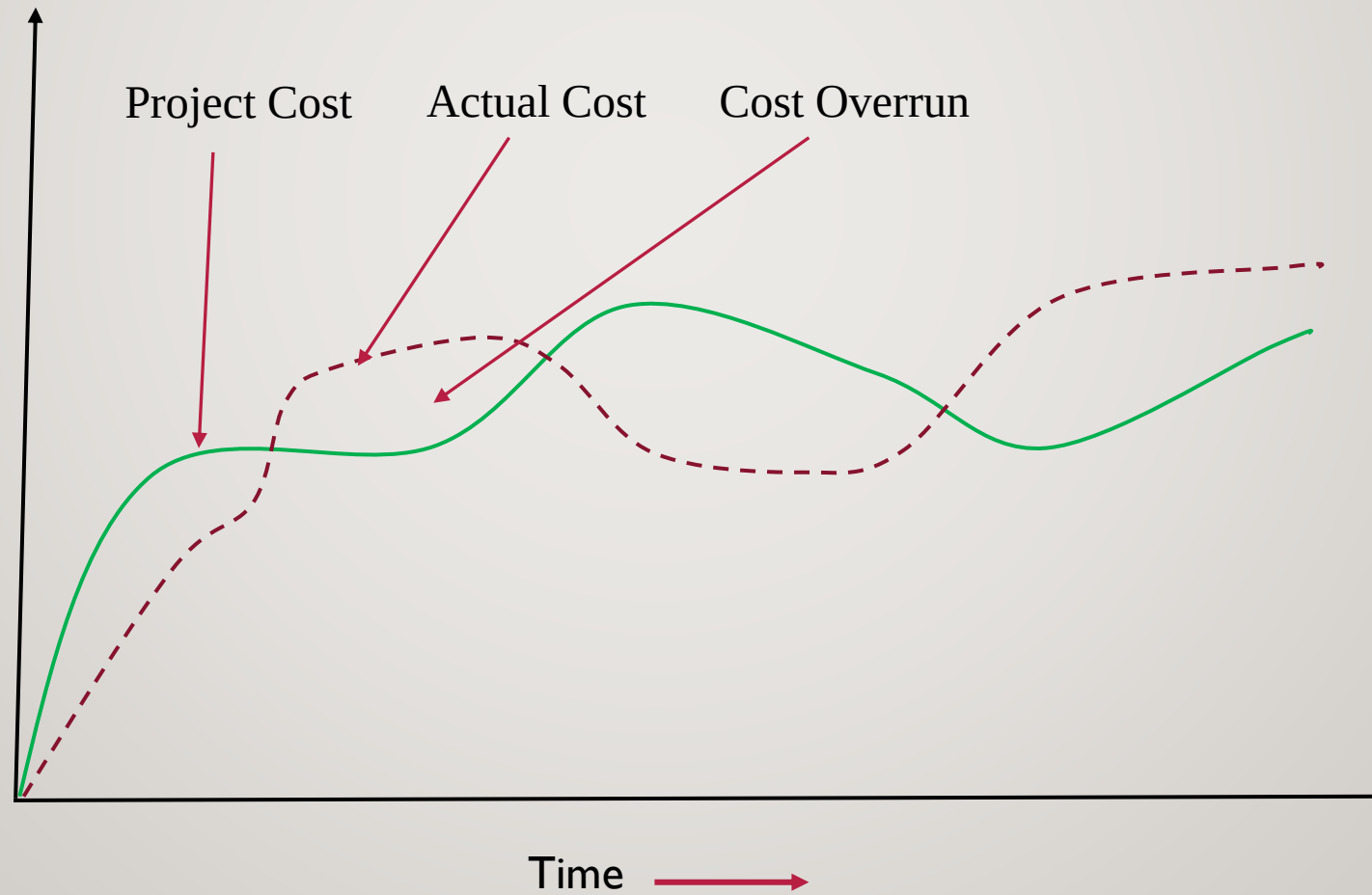
Project Presentation Graphics

- **Phased Bars:** Many manufacturing and high tech projects are conducted in phases, which each phase consisting of its own set of activities.



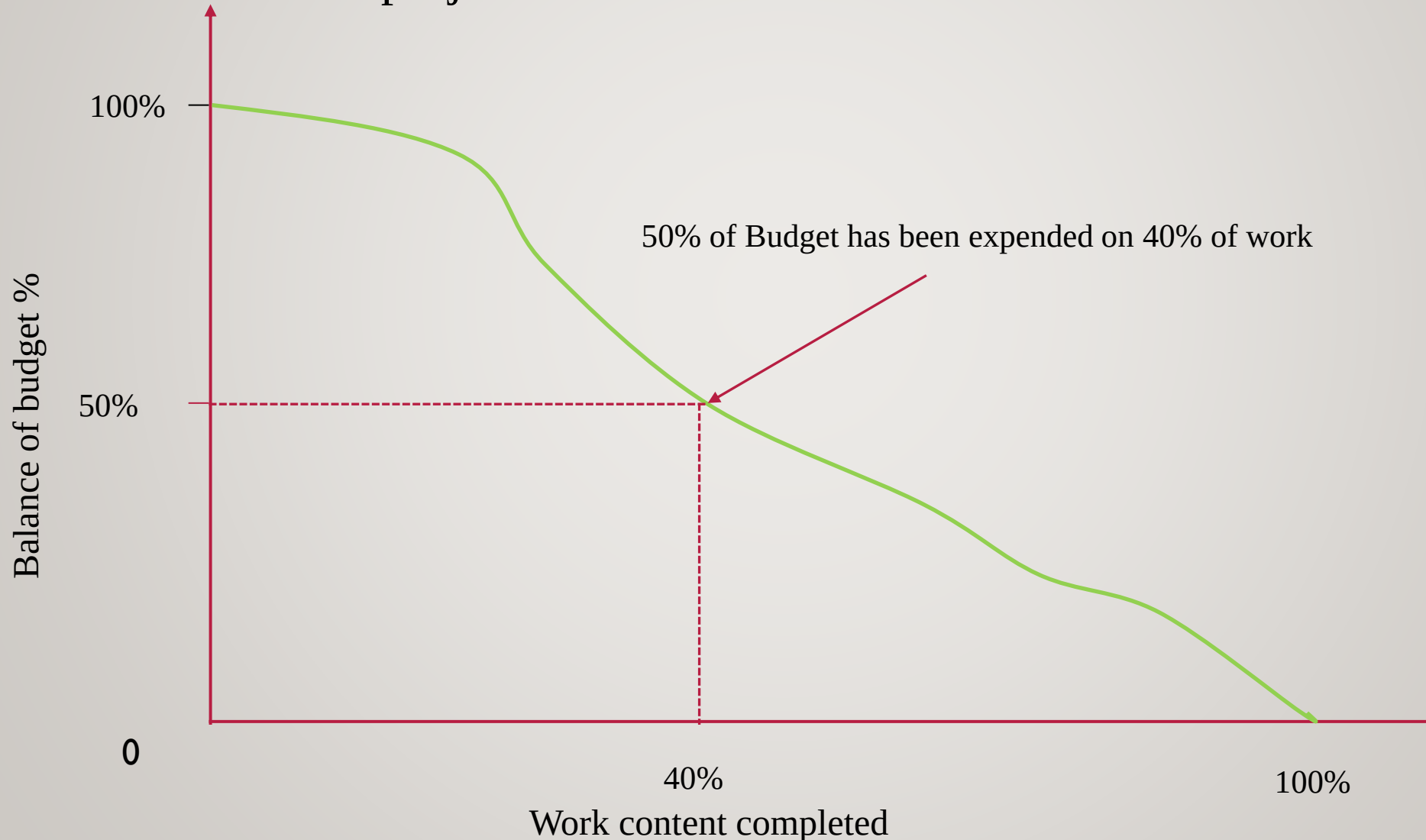
Project Presentation Graphics

- **Cost and Performance Charts:** In This chart, the estimated project cost is compared to actual cost as the project progress over time. Corrective measures may then be taken to arrest clearly identified cost overruns.



Project Presentation Graphics

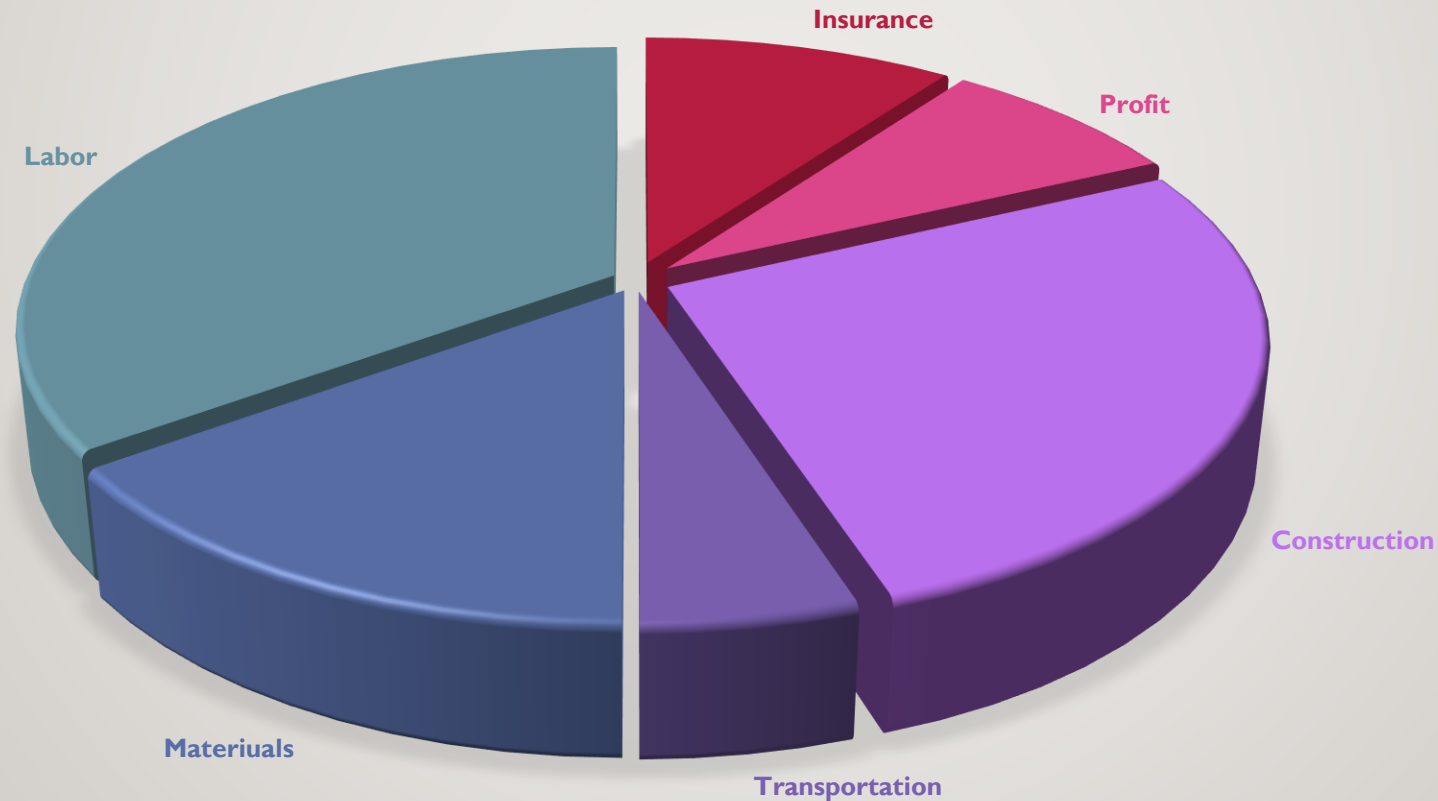
- **Cost Depletion Charts:** Its indicate how much of the project budget has been expended relative to the project schedule



Project Presentation Graphics

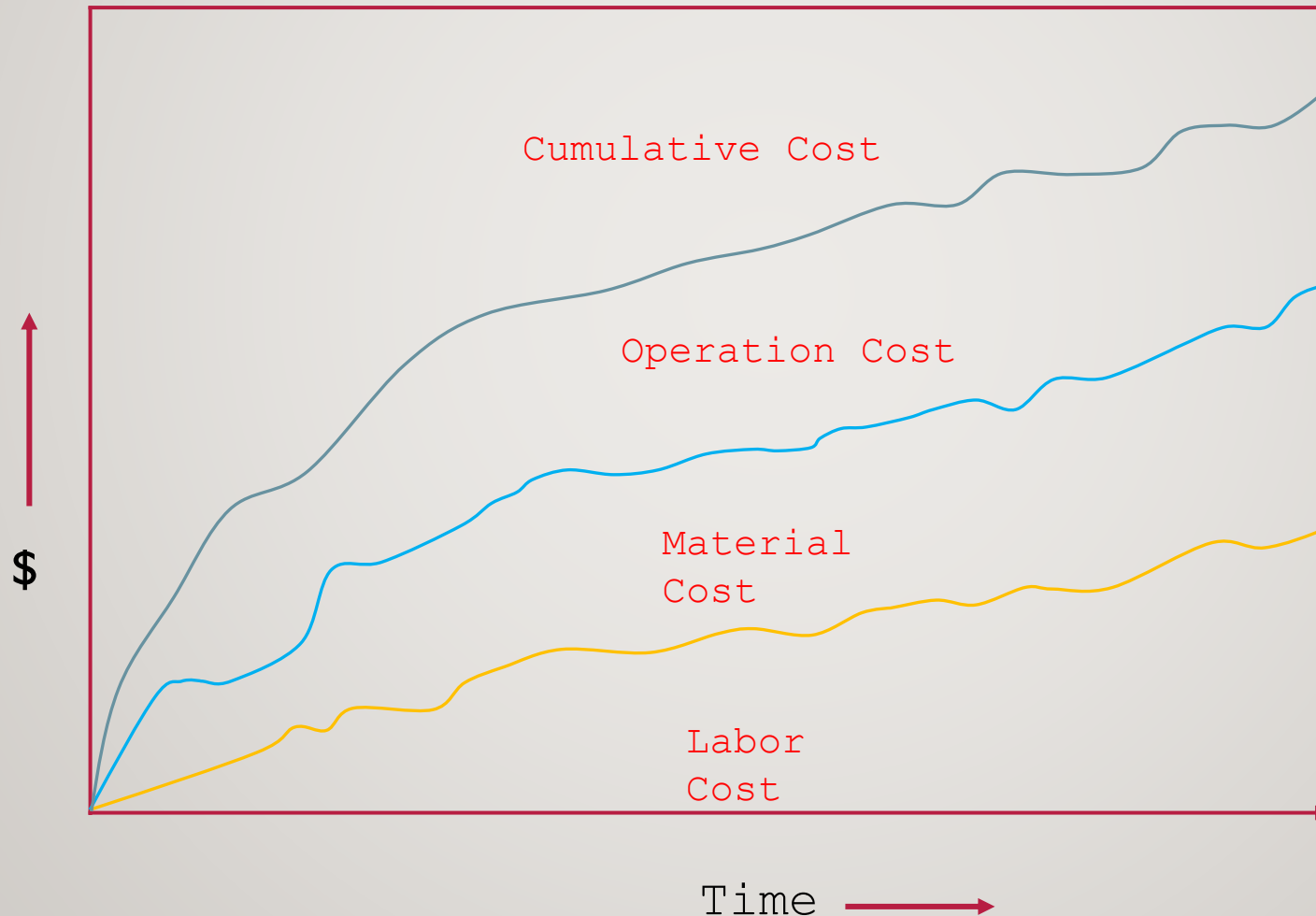
- **Cost Distribution Charts:** To show what portion of the total project cost goes various component of the project

COST DISTRIBUTION CHARTS



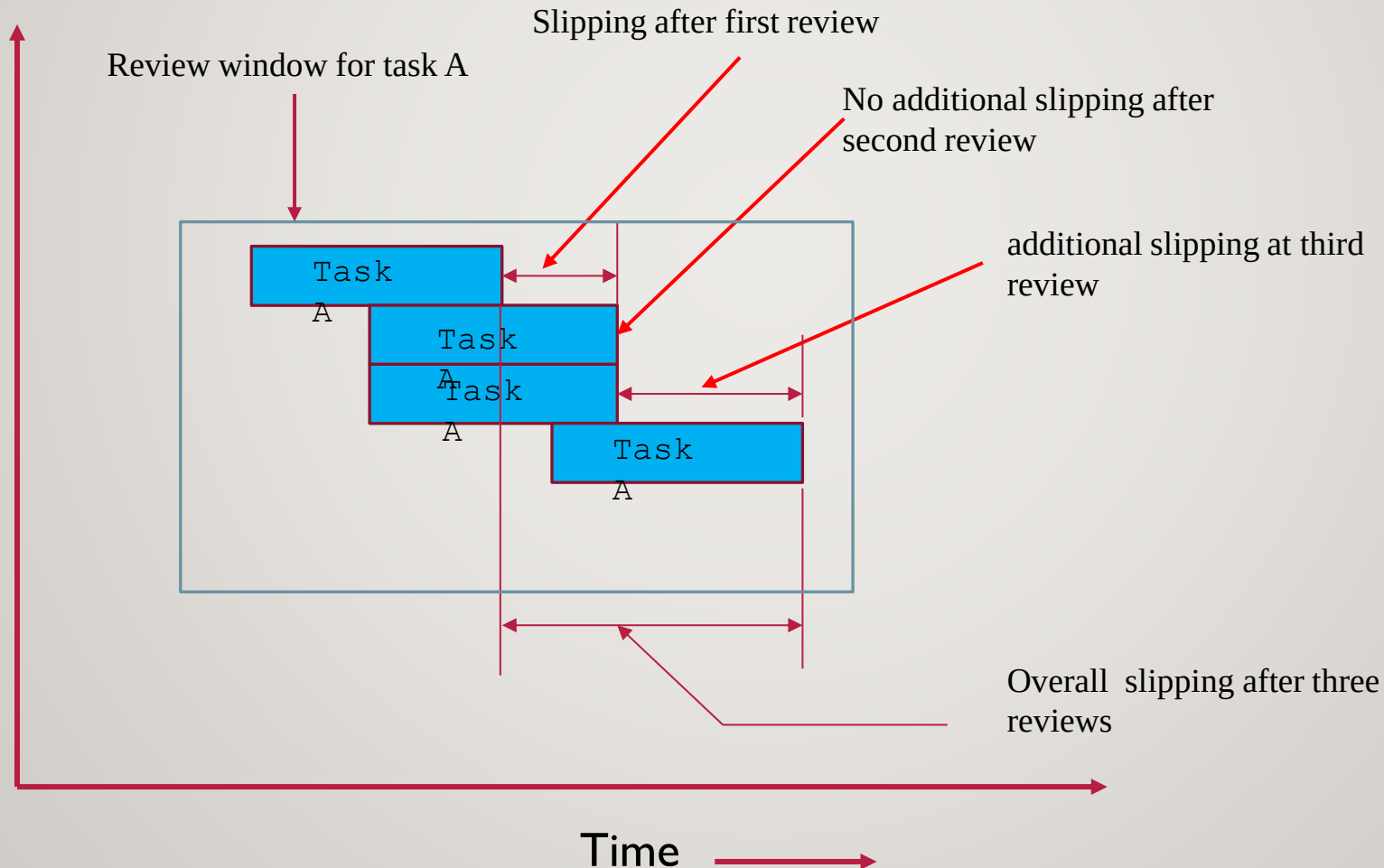
Project Presentation Graphics

- **Area Curve for Cost Distribution:** This chart is developed to convey the cumulative cost shares of project components with respect to time.



Project Presentation Graphics

- **Schedule Slipping windows** : It's a technique for indicating schedule slipping, when the project progress is reviewed periodically and the slipping , if any, are shown in each review windows



THANK YOU