

Lecture 6 - Software Project Management



Lecture Objectives

- To explain the main tasks undertaken by project managers.
- To introduce software project management and to describe its characteristics.
- To discuss project planning and planning process.



Software Project Management

- Concerned with activities involved in ensuring that software is delivered
 - On time;
 - On schedule;
 - In accordance with requirements; and
 - Within budget



- Software product intangible
 - Manager of a civil engineering project can see the building being developed.
 - Behind the schedule is visible in the actual project. E.g part of building has not been build.
- Software Manager relies on
 - Reports and reviews to monitor progress.



Software Management distinctions

- Typical engineering process have fix standards. E.g.
 - Building bridges, cars etc.
- Software products are uniquely flexible.
- Many software projects are 'one-off' projects.



Software Manager's Roles

How to lead?

How to collaborate?



How to organize?

How to motivate?

How to create good ideas?



Management Activities

- Proposal writing.
- Project planning and scheduling.
- Project costing.
- Project monitoring and reviews.
- Personnel selection and evaluation.
- Report writing and presentations.
 - To both client and stakeholders in the company.



Project Planning

- Probably the most time-consuming project management activity.
 - Iterative process which is only complete when the project itself is complete.
- Project plan is regularly revised;
 - As more project information is available.

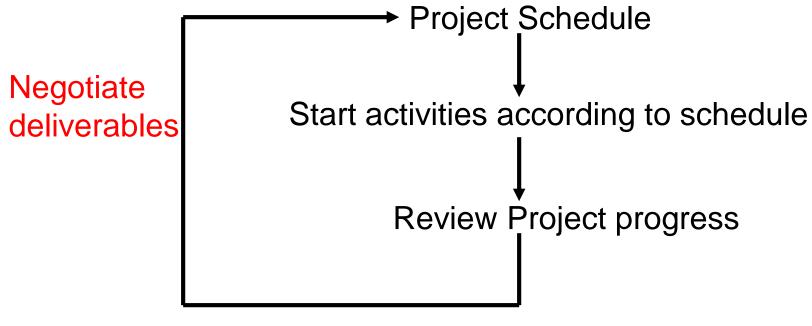


Project planning process

- Assess the project constraints
 - Required delivery date
 - Staff available
 - Overall budget
- Define Process milestone and deliverables



Project planning process



Update the project schedule



Key Points

- Good project management is essential for project success.
- Project Managers have diverse roles;
 but most significant activities are
 - Planning
 - Scheduling
- Planning and scheduling are iterative process.