

CE/CZ3004 CSC279

Project Planning

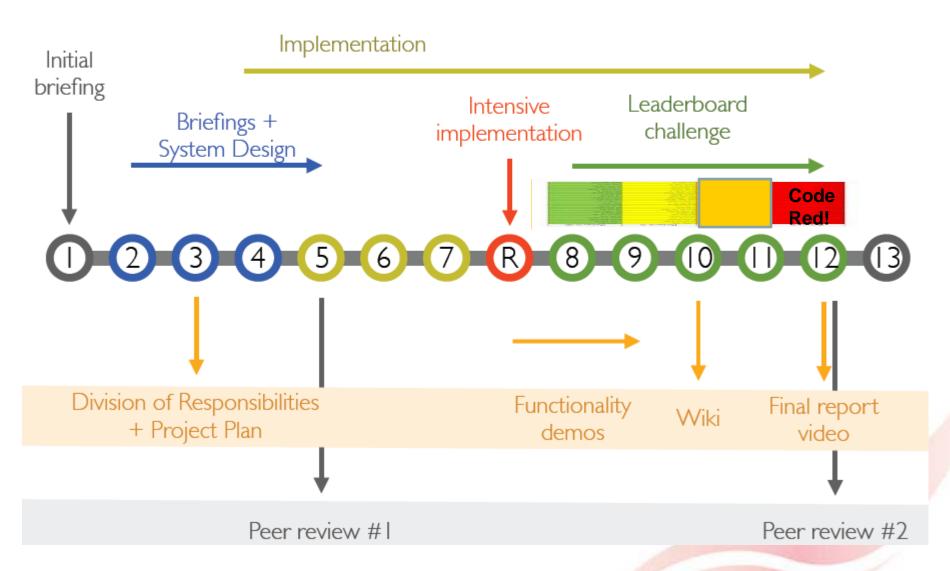
MDPTASK

Build a robotic system that can

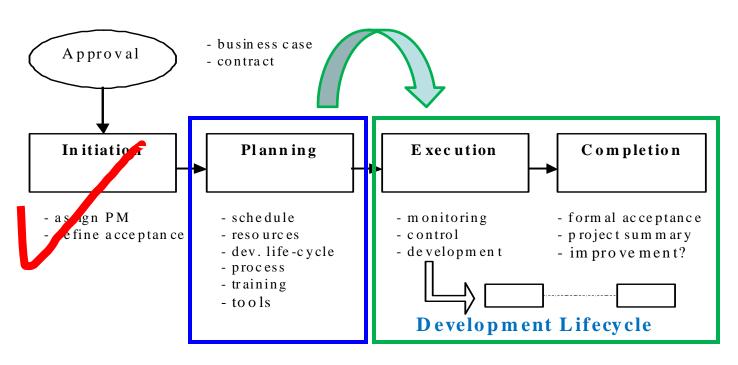


- Autonomously explore + traverse an unknown area, avoiding obstacles
- Plan and follow fastest path from X to Y
- Transmit telemetry + receive control signals from mobile device
- Simulate physical robot and algorithms in software

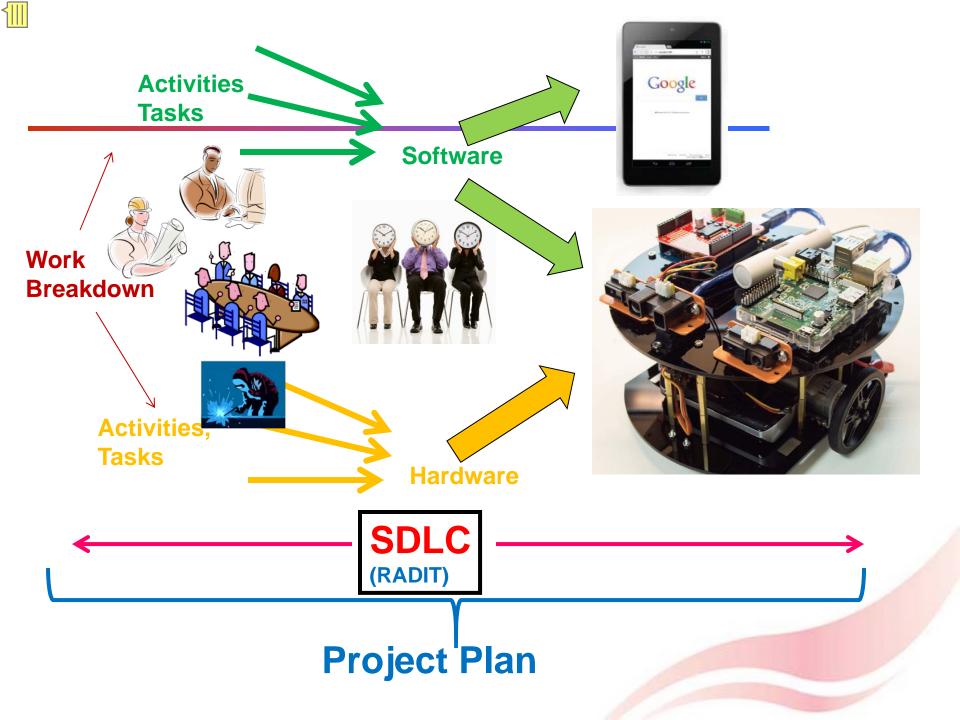
TIMELINE



Project (Management) Lifecycle



What to do, Who to do, How to do.

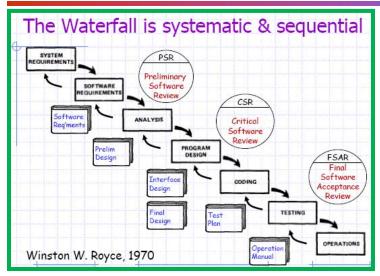


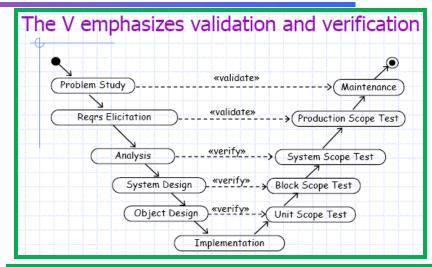
Project Plan structure

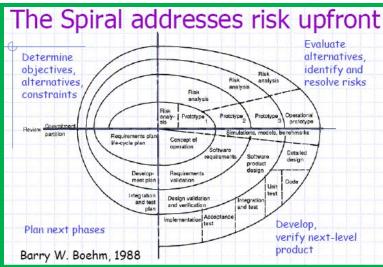
- Project Objectives.
- Project Scope.
- Work Breakdown Structure (WBS).
- Project Organisation.
- Project Approach & Strategy.
- Risk Management.
- Project Estimation & Schedule.

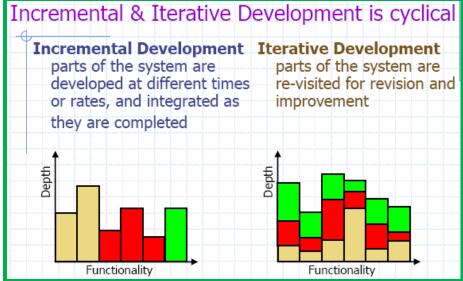


SDLC Model

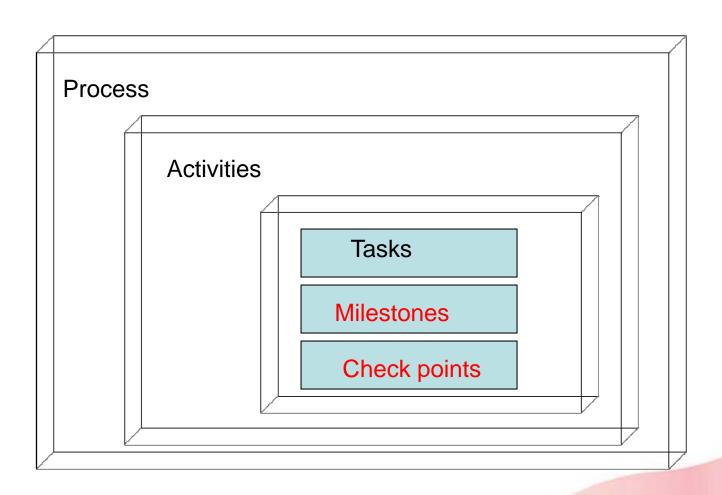






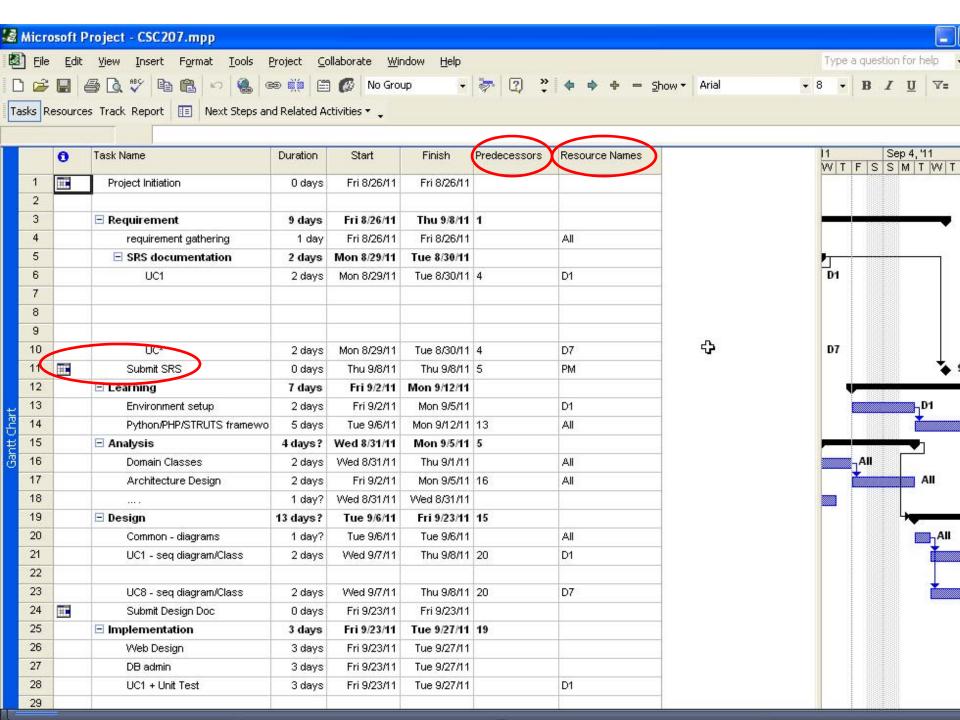


Process Decomposition

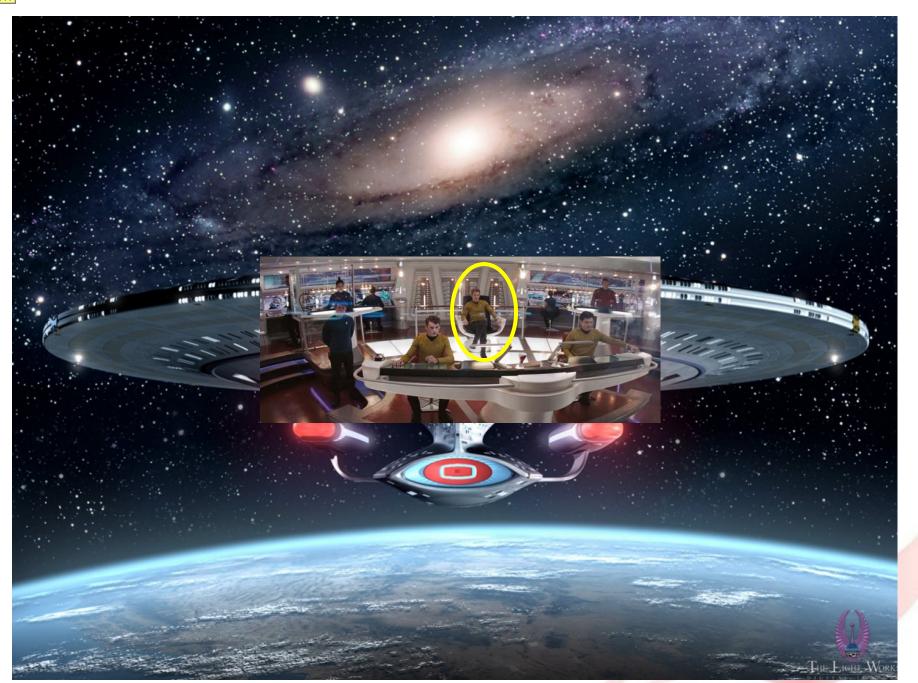


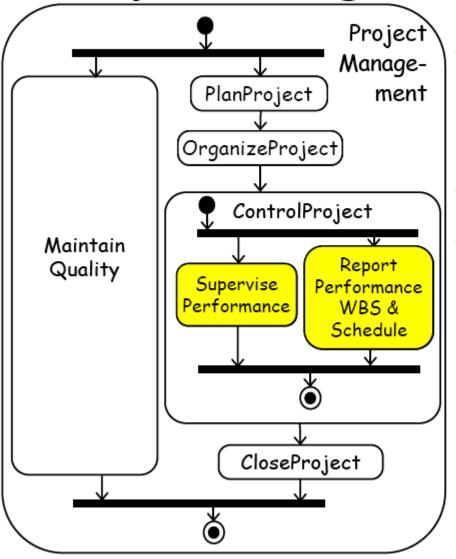
ASSESSMENT

Group assessment (60%)		
Division of responsibilities, project plan	10%	End Week 3
System functionality	20%	End Week 9
Project wiki	15%	End Week 10
Final report video	15%	End Week 12
Competitive group assessment (15	%)	
Leaderboard performance ranking	15%	Weeks 8-12
Individual assessment (25)%		
Early-stage peer review	5%	Week 5
Final-stage peer review	20%	Week 12



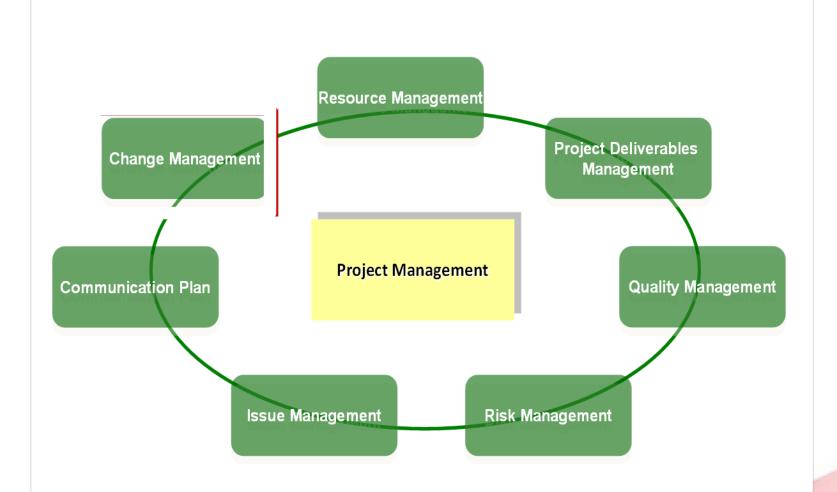






- → Conduct progress meetings
- Monitor metrics
- Manage risk

Project Management & Communication



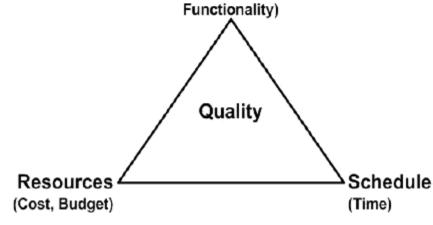
Plan what you going to do!

Do what you planned!

Prove that you did it according to planned!

Successful Project = project delivered On time, within budget, with required scope and expected quality

Scope (Features.





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Project Plan Submission (10%)

Deadline: 10th Feb 2014 (Mon)

2359hrs (11:59pm)

Venue: EdveNTUre online

(under <u>Assignments</u>).

Format: MS Word / PDF

(Limit report to 15 pages based on provided template, including Project Schedule and Gann Chart)

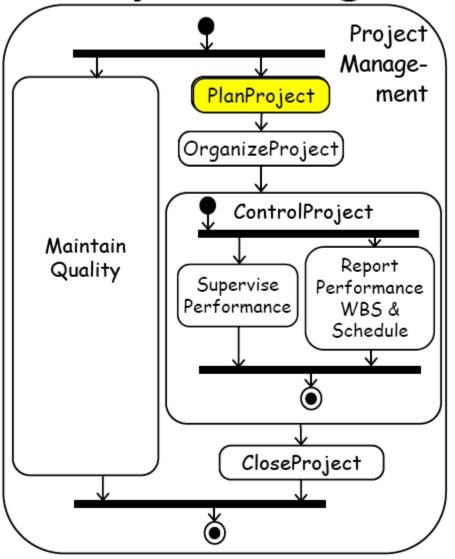
Note that TWO (2) marks (upon 50 marks) will be deducted for the delay submission of each calendar day.

Assessment Criteria:

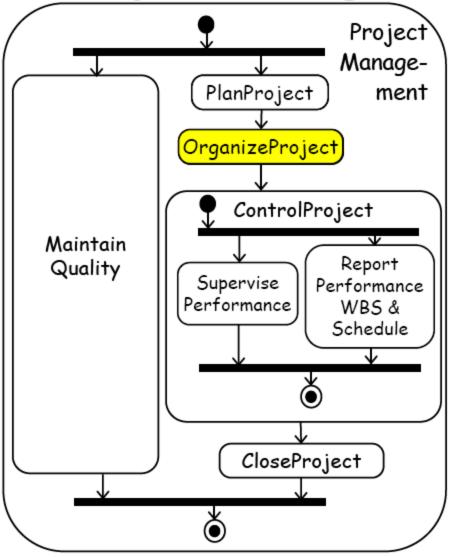


- 1. Project understanding and Strategy Planning –
 Details clarity and relevance of the planned strategy in meeting project objectives and scope. (20 marks)
- 2. Work breakdown Details clarity and relevance of the planned activities tasks(ownership and distribution) to be performed, tasks dependencies and timeline estimation. (20 marks)
- **3. Risk Management –** Clarity and relevance of risks to be mitigated and mitigation strategies. (10 marks)

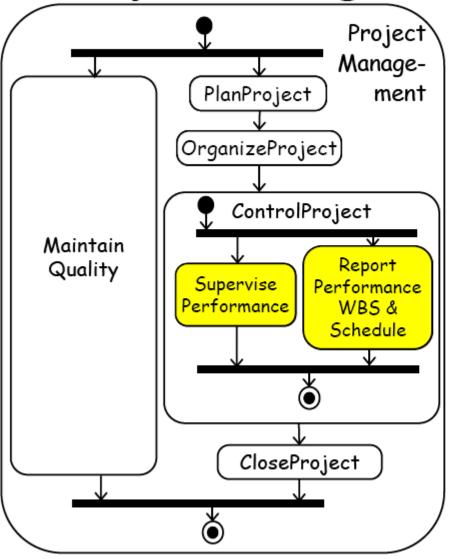
Essential Slides from Software Engineering Course



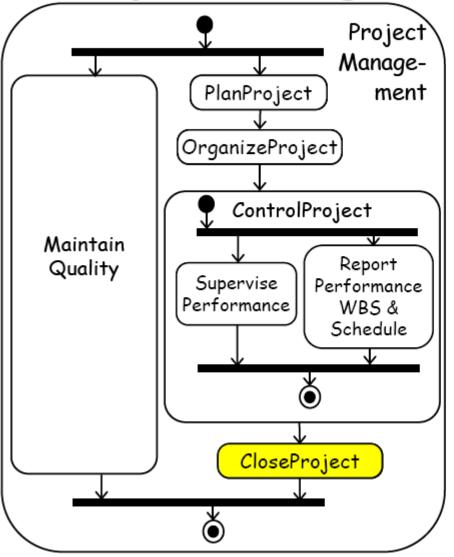
- → Define problem
- Define top-level design
- Identify task model
- Develop ProjectManagementPlan



- Set up communication infrastructure
- Assign roles and assemble teams
- Identify skills and hire
- → Agree on scope
- Organise kickoff meeting

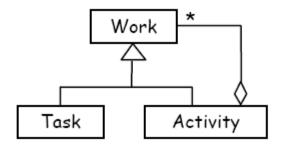


- → Conduct progress meetings
- Monitor metrics
- Manage risk



- Conduct acceptance test
- Monitor installation
- Conduct postmortem

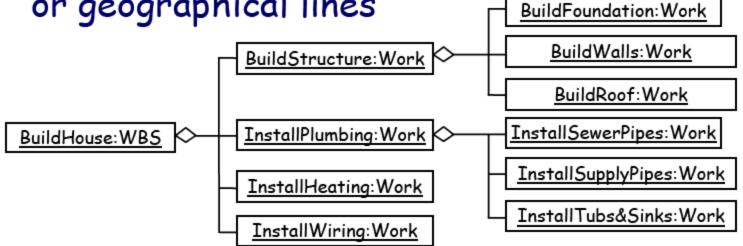
Work is tasks, activities and functions assigned to individuals or teams



- Task is well-defined work assignment, with description, duration, assigned resource, dependency and clear acceptance criteria
- Task is smallest unit of work subject to project management
- Task is small enough to be doable, whose duration can be estimated and can be assigned to single person

- Work Breakdown Structure is hierarchical representation of all tasks in project
 - Derived from Statement of Work (project scope)
 - Divide and conquer

Decomposition along functional, subsystem or geographical lines ☐ BuildFoundation: Work



Tasks are scheduled on Calendar

- Schedule is marked by Milestones and Baselines
- Milestones are often linked to development budget payments
- Baselines are critical points when major decisions are formalised and finalised

Controlling the Project

- Obtain accurate project status
- Highlight problems
- Address departures from schedule
 - Meetings
 - Metrics
 - Risk management

FYP vs MDP



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