Course Code: BCSE2351 Course Name: Software Project Management

Software Project Management

Course Code :BCSE2351 Course Name:

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Project - Meaning

Some dictionary definitions:

- "A specific plan or design"
- "A planned undertaking"
- "A large undertaking e.g. a public works scheme" Longmans dictionary

Key points above are *planning* and *size* of task.

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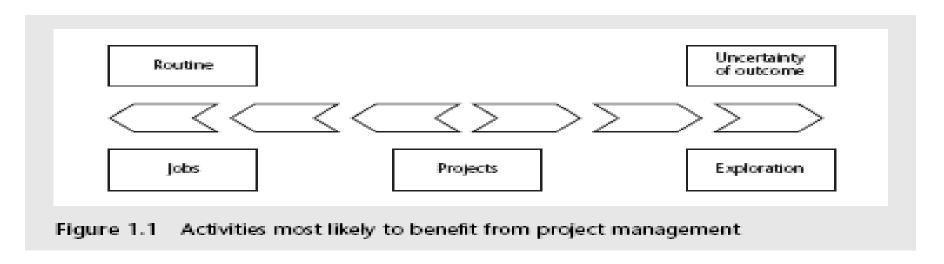
Project - Meaning

- In the broadest sense, a **project** is a specific, finite task to be accomplished. Any activity that results in a deliverable or a product.
- Projects always begin with a problem. The project is to provide the solution to this problem.
- When the project is finished it must be evaluated to determine whether it satisfies the objectives and goals.

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Jobs versus Projects



- 'Jobs'-repetition of very well-defined and well understood tasks with very little uncertainty
- 'Exploration' –e.g. finding a cure for cancer: the outcome is very uncertain
- 'Projects' -in the middle!

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Characteristics of projects

A task is more 'project-like' if it is:

- Non-routine
- Planned
- Aiming at a specific target
- Work carried out for a customer
- Involving several specialists
- Made up of several different phases
- Constrained by time and resources
- Large and/or complex

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Software vs Other Projects

Are *software* projects really different from other projects?

Not really! ...but...

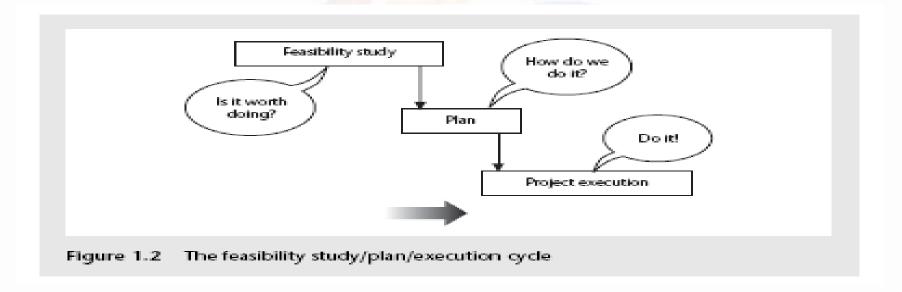
- Invisibility
- Complexity
- Conformity
- Flexibility

make software more problematic to build than other engineered artifacts.

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Project Management Activities

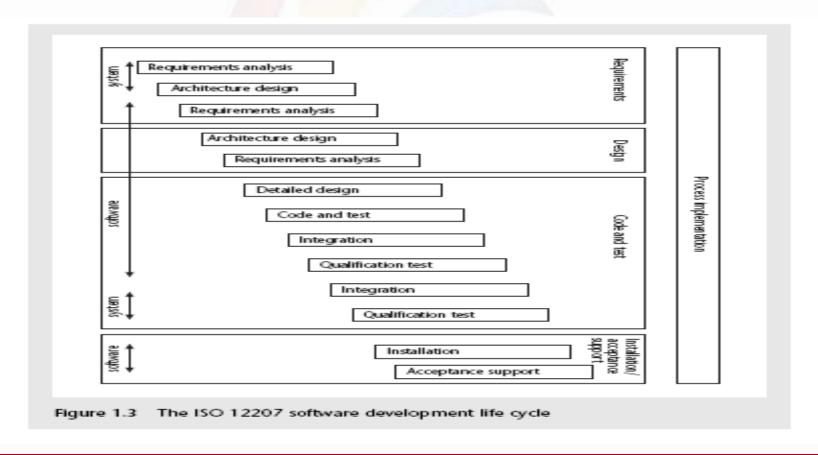


- Feasibility study: Is project technically feasible and worthwhile from a business point of view?
- Planning: Only done if project is feasible
- Execution: Implement plan, but plan may be changed as we go along

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The software development life-cycle (ISO 12207)



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Some ways of categorizing projects

Distinguishing different types of project is important as different types of task need different project approaches e.g.

- Information systems versus embedded systems
- Objective-based versus product-based

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What is Management?

This involves the following activities:

- Planning –deciding what is to be done
- Organizing –making arrangements
- Staffing –selecting the right people for the job
- Directing –giving instructions
- Monitoring –checking on progress
- Controlling –taking action to remedy hold-ups
- Innovating –coming up with solutions when problems emerge
- Representing —liaising with clients, users, developers and other stakeholders