

Subject Overview (from the handbook)

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AIMS

The aim of this subject is to introduce students to the software engineering principles, processes, tools and techniques for analysing and managing complex software projects.

INDICATIVE CONTENT

Topics covered include: software engineering processes; project management; planning and scheduling; estimation and metrics; quality assurance; risk; configuration management; individuals and teams; ethics; change management; and project management tools.

Intended learning outcomes

On completion of the subject, students should be able to:

- Select appropriate software engineering processes and practices for specific software engineering projects
- Manage team dynamics and professional communication
- Plan and manage projects
- Identify risks and modify project activities to mitigate these risks
- Manage software project activities to ensure a quality product
- Describe human and organisational implications of change and explain the organisational change process

Generic skills

- Have in-depth knowledge of a specialist area through exposure and study of project management areas of knowledge
- Reach a high level of achievement in writing, research or project activities problem-solving and communication through the writing of project analyses
- The ability to function effectively as an individual or in a multidisciplinary and multi-cultural team as a leader, manager or effective team-member
- Profound respect for ethics and intellectual integrity
- Writing and communication skills