COMP 3009 - 2013

Examinable Material

Project Management

- Process: concept and definition.
- CMM principles and outline.
- CMMI outline.
- S/W Development process modelling, outline.
- Project estimating.
- Project planning, Critical Path Analysis,
- S/W project lifecycles - Choosing the S/W development process,
- Traditional versus newer process strategies.
- Agile Methods principles.
- WIN –WIN process.
- Experience with the Software Management game
  - Decision-making and budgeting for:
    - Time
    - Cost
    - Quality
  - Software staff specialisms.

Quality Assurance

- S/W Metrics relevant to delivered code.
- Reliability:
  - Time to target
  - MTBF
  - Failure rate.
- Residual Bug modelling,
- Reuse and metrics
  - Increase in quality with repeated re-use.
  - Gaffney's model.
- Risk Management:
  - Principles
  - Risk Monitoring
  - Management and Mitigation
  - Risk estimating and prioritising.
  - MonteCarlo modelling.