

University of Pretoria Yearbook 2018

Project management 804 (IPK 804)

Qualification Postgraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 10.00

Programmes MEng Technology and Innovation Management (Coursework)
MSc Technology and Innovation Management (Coursework)

Prerequisites No prerequisites.

Contact time 20 contact hours

Language of tuition Module is presented in English

Department Engineering and Technology Management

Period of presentation Semester 1 or Semester 2

Module content

The nature of projects and project management. The project life cycle and project phases. Organisational aspects of project management. Project teams and roles. Responsibility matrixes. Processes and methodologies for planning and control: Initiating the project, Scope planning, Scope definition and the WBS, Scope verification and work authorisation. Scheduling: Stochastic PERT, CPM time-cost tradeoffs and critical chain. Resource planning and scheduling of multiple projects and scheduling of multiple projects. Cost estimating, project budgeting and project cash flow. The control process. Performance analysis: earned value and performance indices. Project closure: evaluation, reporting and termination. Project management information systems. Project closure and continuing improvement. Reasons for project successes and failures.

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