

University of Pretoria Yearbook 2016

Research project 422 (MSC 422)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 24.00

Programmes [BEng Mechanical Engineering](#)
[BEng Mechanical Engineering Engage](#)

Prerequisites Finalists only, MSC 412

Contact time 8 other contact sessions per week

Language of tuition Both Afr and Eng

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 2

Module content

Module content: The module involves the management of the execution of a project that produces knowledge and understanding of a phenomenon, conclusions and a recommended course of action. The project is undertaken under the supervision of a staff member with the student ultimately taking responsibility for the management of and execution of the project. This module follows onto MSC412 and deals with the same topic in the same year. The student should be able to demonstrate competence in designing and conducting investigations and experiments and adherence to well defined time-lines and work breakdown structures. An acceptable process consists of but is not restricted to: (a) understanding of the stated problem, (b) developing a work breakdown structure, (c) performing the necessary analyses; (d) selecting and using appropriate equipment or software; (e) construction and instrumentation of an experimental set-up; (f) taking measurements; (g) analysing, interpreting and deriving information from data; (h) drawing conclusions based on evidence; (i) communicating the purpose, process and outcomes in a technical report, presentation and poster.

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