Overview

This is the foundation engineering science course for all five plans in the School of Mechanical and Manufacturing Engineering, with content as follows: Revision of vectors, resultants and components, moments; The free body diagram; Equilibrium of planar rigid objects; Equilibrium of systems of co-planar multi-force members and planar trusses; Friction; Mass centre, centroids, distributed forces; Internal forces in beams; Introduction to 3-dimensional statics; Plane particle kinematics, including curvilinear and relative motion; Plane particle kinetics, including equations of motion, work-energy-power, friction, impulse-momentum, impact; Kinetics of systems of particles; Introduction to plane kinematics of rigid bodies, types of rigid body motion (translation, rotation about a fixed axis); Mass moment of inertia, parallel axis theorem, moment of inertia for various shapes, Introduction to plane kinetics of rigid bodies, rigid body in plane motion, equations of motion, work-energy for a rigid body.
**Faculty**
Faculty of Engineering

**School**
School of Mechanical and Manufacturing Engineering

**Study Level**
Undergraduate

**Delivery Mode**
Fully on-site

**Indicative contact hours**
6

**Timetable**
Visit timetable website for details
Conditions for Enrolment

Prerequisite: (MATH1131 or DPST1013 or MATH1141) and (PHYS1121 or PHYS1131 or DPST1023 or PHYS1141)
Equivalent Courses

MINE1300 6 UOC
Engineering Mechanics

MECH1300 6 UOC
Engineering Mechanics 1

MECH0330 4 UOC
Engineering Mechanics

ENGG1300 6 UOC
Engineering Mechanics

DPST1072 6 UOC
Engineering Mechanics 1

CVEN1300 6 UOC
Engineering Mechanics for Civil Engineers
Course Outline

To access course outline, please visit:

MMAN1300 Course Outline
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179