

University of Pretoria Yearbook 2024

Statics 122 (SWK 122)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	05
Programmes	<p>BEng (Chemical Engineering) 4-year programme</p> <p>BEng (Chemical Engineering) 5-year programme</p> <p>BEng (Civil Engineering) 4-year programme</p> <p>BEng (Civil Engineering) 5-year programme</p> <p>BEng (Computer Engineering) 4-year programme</p> <p>BEng (Computer Engineering) 5-year programme</p> <p>BEng (Electrical Engineering) 4-year programme</p> <p>BEng (Electrical Engineering) 5-year programme</p> <p>BEng (Electronic Engineering) 4-year programme</p> <p>BEng (Electronic Engineering) 5-year programme</p> <p>BEng (Industrial Engineering) 4-year programme</p> <p>BEng (Industrial Engineering) 5-year programme</p> <p>BEng (Mechanical Engineering) 4-year programme</p> <p>BEng (Mechanical Engineering) 5-year programme</p> <p>BEng (Metallurgical Engineering) 4-year programme</p> <p>BEng (Metallurgical Engineering) 5-year programme</p> <p>BEng (Mining Engineering) 4-year programme</p> <p>BEng (Mining Engineering) 5-year programme</p> <p>BSc Environmental and Engineering Geology</p> <p>BSc extended programme - Physical Sciences</p>
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	WTW 158, admission to relevant programme
Contact time	2 tutorials per week, 4 lectures per week
Language of tuition	Module is presented in English

Department Civil Engineering

Period of presentation Semester 2

Module content

Equivalent force systems, resultants. Newton's laws, units. Forces acting on particles. Rigid bodies: principle of transmissibility, resultant of parallel forces. Vector moments and scalar moments. Relationship between scalar and vector moments. Couples. Equivalent force systems on rigid bodies. Resultants of forces on rigid bodies. Equilibrium in two and three dimensions. Hooke's law. Trusses and frameworks. Centroids and second moments of area. Beams: distributed forces, shear force, bending moment, method of sections, relationship between load, shear force and bending moment.

General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.