

University of Pretoria Yearbook 2025

Introduction to sustainable engineering II 120 (JSU 120)

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| Qualification | Undergraduate |
| Faculty | Faculty of Engineering, Built Environment and Information Technology |
| Module credits | 8.00 |
| NQF Level | 05 |
| Programmes | <p>BEng in Chemical Engineering 4-year programme</p> <p>BEng in Chemical Engineering 5-year programme</p> <p>BEng in Civil Engineering 4-year programme</p> <p>BEng in Civil Engineering 5-year programme</p> <p>BEng in Computer Engineering 4-year programme</p> <p>BEng in Computer Engineering 5-year programme</p> <p>BEng in Electrical Engineering 4-year programme</p> <p>BEng in Electrical Engineering 5-year programme</p> <p>BEng in Electronic Engineering 4-year programme</p> <p>BEng in Electronic Engineering 5-year programme</p> <p>BEng in Industrial Engineering 4-year programme</p> <p>BEng in Industrial Engineering 5-year programme</p> <p>BEng in Mechanical Engineering 4-year programme</p> <p>BEng in Mechanical Engineering 5-year programme</p> <p>BEng in Metallurgical Engineering 4-year programme</p> <p>BEng in Metallurgical Engineering 5-year programme</p> <p>BEng in Mining Engineering 4-year programme</p> <p>BEng in Mining Engineering 5-year programme</p> |
| Prerequisites | No prerequisites. |
| Contact time | 2 practicals per week |
| Language of tuition | Module is presented in English |
| Department | EBIT Dean's Office |
| Period of presentation | Semester 2 |

Module content

Introduction to fundamentals of engineering, professional development of engineers and sustainability practices. This module is intended to further expose students to engineering, sustainability (social, economic and environmental) implications on design as well as appropriate technical communication practices. Specific components will include (but are not limited to) the following: an introduction to your chosen engineering discipline, the design process, critical, creative and entrepreneurial thinking, decisionmaking, problem solving, ethics and sustainability, industry standards and professional conduct, teamworking, leadership, project management, career preparation and employability.

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.