

# University of Pretoria Yearbook 2025

## Physics and chemistry education 410 (JPC 410)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Education</a>
<b>Module credits</b>	24.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	May only be taken in the final year of study
<b>Contact time</b>	2 lectures per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Science, Mathematics and Technology Education
<b>Period of presentation</b>	Semester 1 and Semester 2

### Module content

The following themes: Application of vectors in one and two dimensions in the study of motion and forces. Newton's laws, momentum work and energy. Waves, sound and light. Electrostatics, electric circuits, magnetism, electromagnetism, atomic structure, chemical bonding, chemical reactions, stoichiometry, energy and chemical change, reaction rate, chemical equilibrium, electrochemical reactions. Ideal gasses, properties of materials as it relates to the school curriculum

### 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.