



University of Pretoria Yearbook 2017

BEdHons Technology Education (09240004)

Duration of study 1 year

Total credits 128

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Admission requirements

A candidate can be admitted if he/she holds one of the following qualifications:

- a Bachelor's degree and a teacher's diploma/Postgraduate Certificate in Education (eg BA + HED); or
- a four year composite degree in Education (eg BEd, BAEd); or
- an M+4 appropriate teacher's diploma, subject to specific approval; or
- an appropriate Advanced Diploma in Education; or
- another academic qualification and appropriate prior learning, considered equivalent by the Dean for admission to a specific package.

Additional requirements

Selection is based on:

- Meeting the minimum academic requirements required for admission;
- Previous academic performance;
- Applicable academic and/or teaching background;
- Availability of supervision for the required research project;
- Proven academic potential which may include academic communication and computer application skills;
- Additionally, an interview may be requested;
- The requirements of professional registration bodies;
- The discretion of the head of department.

Examinations and pass requirements

Subject to exceptions approved by the Dean, on the recommendation of the head of the department, a student may not sit for an examination for the honours degree more than twice in the same module.

A final-year student who has failed a maximum of three semester modules or their equivalent, with a final mark of at least 40% in each, may be admitted by the Dean to a special examination/s in these modules during January of the following year, provided that this will enable the student to comply with all the requirements for the degree.

Research information

A research project is compulsory and must be handed in for examination, as prescribed by the



particular department.

Pass with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75%, with a minimum of 70% in each module.



Curriculum: Final year

Minimum credits: 128

When the full-time option is chosen, all "Fundamental" and "Core" modules must be selected. When the part-time option is chosen, NMQ 745, EDS 711, CDD 710 and API 711 must be selected in the 1st year and NMQ 755, TNO 730, SMP 780 and SCU 731 must be selected in the final year.

Fundamental modules

Part 2: Research report 780 (SMP 780)

Module content:

Supervised research project of limited scope. Research proposal development; Use quantitative and/or qualitative methods. Writing a research report.

Module credits 16.00

Prerequisites NMQ 755 passed.

Language of tuition Afrikaans and English is used in one class

Academic organisation Science, Maths + Techno Ed

Period of presentation Semester 2

Part 1: Research proposal 755 (NMQ 755)

Module content:

Guided literature research, formulation of a conceptual framework and development of a research proposal for a supervised research project of limited scope.

Module credits 16.00

Language of tuition Separate classes for Afrikaans and English

Academic organisation Education Dean's Office

Period of presentation Semester 1

Core modules

Curriculum development 710 (CDD 710)

Module content:

Principles and foundations of curriculum/programme design and development. International and national models and trends in curriculum/programme development. Principles of outcomes-based programming in the SAQA context. Curriculum development models and instruments in action. Situation and task analysis needs assessment. Development. Dissemination. Implementation as a change process. Assessment and evaluation.

Module credits 16.00

Prerequisites No prerequisites.



Language of tuition	Afrikaans and English is used in one class
Academic organisation	Science, Maths + Techno Ed
Period of presentation	Semester 1 or Semester 2

Design and technology education 730 (TNO 730)

Module content:

Philosophy of Technology and Design Science. Design Science is examined from an information processing point of view. The unique nature of Technology is explored and the relationships between Technology, Design and Natural Science are drawn with a particular focus on social technological understanding.

Module credits	16.00
Prerequisites	No prerequisites.
Language of tuition	Afrikaans and English is used in one class
Academic organisation	Science, Maths + Techno Ed
Period of presentation	Semester 1 or Semester 2

Educational research methodology 745 (NMQ 745)

Module content:

The nature of educational enquiry: contexts of research, research ethics, truth, rationality, subjectivity and objectivity; Quantitative and qualitative modes of enquiry, research designs and data collection techniques. Various approaches to qualitative research including case study research, historical research, ethnographic research, and action research. Basic concepts and principles of quantitative research. Statistical techniques in the educational research process. Survey methodology and questionnaire design. Classification and graphical representation of data. Descriptive measures. Statistical inference. Data-processing procedures. Parametric versus non-parametric tests. Some test statistics (e.g. F-Test and T-test). Formulating a research methodology for a limited project.

Module credits	16.00
Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Education Dean's Office
Period of presentation	Semester 1

Assessment approaches and instruments 711 (API 711)

Module content:

Foundations, principles and ethics of assessment practices. International trends. Quantitative and qualitative modes of assessment and appropriate instruments. Generating evidence for assessment. Assessment and quality assurance. Techniques of computer-based assessment.

Module credits	16.00
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Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Science, Maths + Techno Ed
Period of presentation	Semester 2

Philosophy and social imperatives of education 711 (EDS 711)

Module content:

Meta-theories in education. Empiricism; rational empiricism; critical rationalism; critical theory; phenomenology; hermeneutics; system theory; philosophies in education: traditional philosophies; indigenous (African) philosophies. The influence of modernism and postmodernism on education. Sociological imperatives for education. Theories of societal change and roles and values of education. Comparative perspectives on learning theories and their meaning for education.

Module credits	16.00
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Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Educational Psychology
Period of presentation	Semester 1

Sciences curriculum 731 (SCU 731)

Module content:

The nature of the natural sciences, technology and mathematics: public understanding of scientific, mathematical and technological endeavours and their impact on society. Ethical implications of practices and advances in these fields. Indigenous Knowledge Systems (IKS), ethno-mathematics and technologies and ways of knowing. Implications for teaching and learning content, and anticipated outcomes. The purpose and nature of curricula to develop scientific ways of understanding the world.

Module credits	16.00
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Language of tuition	Module is presented in English
Academic organisation	Science, Maths + Techno Ed
Period of presentation	Semester 2

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.