

# University of Pretoria Yearbook 2016

## BEngHons Technology Management (12240251)

**Duration of study** 1 year

**Total credits** 128

### Programme information

The curriculum is determined in consultation with the relevant heads of departments. A student is required to pass modules to the value of at least 128 credits.

The degree is awarded on the basis of examinations only.

### Admission requirements

Subject to the stipulations of the General Regulations, Reg. G.1.3 and G.54, a BEng degree or equivalent qualification is required for admission.

### Examinations and pass requirements

- i. The examination in each module for which a student is registered, takes place during the normal examination period after the conclusion of lectures (i.e. November/January or June/July).
- ii. A student registered for the honours degree must complete his or her studies within two years (full-time), or within three years (part-time) after first registration for the degree: Provided that the Dean, on recommendation of the relevant head of department, may approve a stipulated limited extension of this period.
- iii. A student must obtain at least 50% in an examination for each module where no semester or year mark is required. A module may only be repeated once.
- iv. In modules where semester or year marks are awarded, a minimum examination mark of 40% and a final mark of 50% is required.
- v. No supplementary or special examinations are granted at postgraduate level.

### Pass with distinction

A student passes with distinction if he or she obtains a weighted average of at least 75% in the first 128 credits for which he or she has registered (excluding modules which were discontinued timeously). The degree is not awarded with distinction if a student fails any one module (excluding modules which were discontinued timeously).



## Curriculum: Final year

Minimum credits: 128

### Core modules

#### Quality management 780 (IKK 780)

Module credits	16.00
Prerequisites	No prerequisites.
Contact time	22 other contact sessions per week, 14 lectures per week, 6 discussion classes per week
Language of tuition	English
Academic organisation	Engineering and Tech Man
Period of presentation	Semester 1 or Semester 2

##### Module content

A research term paper will be prepared.

#### Engineering economics 780 (IKN 780)

Module credits	16.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	English
Academic organisation	Engineering and Tech Man
Period of presentation	Semester 1

##### Module content

A research term paper will be prepared.

#### Maintenance management 780 (IMC 780)

Module credits	16.00
Prerequisites	No prerequisites.
Contact time	20 contact hours per semester
Language of tuition	English
Academic organisation	Engineering and Tech Man
Period of presentation	Semester 2

##### Module content

A research term paper will be prepared.



## Organisation and innovation 780 (INV 780)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	16 lectures per week, 22 other contact sessions per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 2

### Module content

A research term paper will be prepared.

## Project management 780 (IPK 780)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	20 contact hours per semester
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 2

### Module content

A research term paper will be prepared.

## Systems engineering 780 (ISE 780)

<b>Module credits</b>	16.00
<b>Service modules</b>	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	20 contact hours per semester
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 1

### Module content

A research term paper will be prepared.

## Operations management 781 (IVV 781)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	20 contact hours per semester

<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 1 or Semester 2

#### Module content

A research term paper will be prepared.

## Elective modules

### Asset Management 780 (IBB 780)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	20 contact hours
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 2

#### Module content

"Asset Management" may be defined as a life cycle process for creating, establishing, maintaining, operating, rehabilitating and divesting an asset in an optimal or balanced manner to satisfy the constraints imposed by economy, ergonomics, technical integrity and business performance. Within this definition, physical assets include equipment, infrastructure, and people. The 'holistic' view implied here recognises the wider range of disciplines required for strategic decisions and tactical management of physical assets. Strategy and tactics depend on the asset, whereas people processes underpin the effective management of an asset. The overall objective for the physical Asset Management module is to provide an integrated understanding of the complimentary disciplines applicable to the management of engineered assets. The module will emphasise the synergy between specialist and cross-disciplinary skills and their respective roles with respect to the management of physical assets. The overall outcome for the learner will be awareness of the collaboration required and application of cross-disciplinary skills in technical, engineering, finance logistics, human communication, and other functions to achieve effective management of physical assets.

### Technological entrepreneurship 780 (IEE 780)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	20 contact hours per semester
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Engineering and Tech Man
<b>Period of presentation</b>	Semester 2

#### Module content

A research term paper will be prepared.

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 students to familiarise themselves 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.