



# University of Pretoria Yearbook 2021

## PhD Mathematical Sciences (02260762)

**Department** Mathematics and Applied Mathematics

**Minimum duration of study** 2 years

**Total credits** 360

**NQF level** 10

### Programme information

A candidate must complete a thesis in one of several fields in which research is actively being done in the Department. The research fields and the names of possible supervisors are available from the departmental postgraduate brochure at: [www.up.ac.za/math/postgrad](http://www.up.ac.za/math/postgrad)

#### Duration of studies

The doctorate is conferred on a student only if one of the following periods has expired:

- i. At least four years after complying with all the requirements for a three-year bachelor's degree.
- ii. At least three years after complying with all the requirements for a four-year bachelor's degree.
- iii. At least two years after complying with all the requirements for a bachelor's degree of five years or more.
- iv. At least two years after complying with all the requirements for a master's degree.
- v. With the exception of a shorter period that may be approved by the Dean, at least 12 months since registration for the doctorate at this University has expired.

The relevant head of department may set specific residential requirements for students who are required to live on campus.

#### Renewal of registration

Subject to other faculty regulations, a student for a doctorate must complete his or her studies within three years after first registering for the degree. Under special circumstances, the Dean, on the recommendation of the relevant head of department or the Postgraduate Committee, may give approval for a limited fixed extension of this period.

#### Curriculum

The curriculum for the PhD degree consists of the following:

- i. Theoretical knowledge of the major subject/s and such additional modules as may be prescribed.
- ii. A thesis.

#### General

Candidates are required to familiarise themselves with the General Regulations regarding the maximum duration of study and the requirements to submit an article/s for publication.



## Admission requirements

1. MSc (Mathematics) degree **or** MSc (Applied Mathematics) degree **or** relevant master's degree
2. Research methodology at master's level

## Examinations and pass requirements

- i. Consult the General Regulations that apply to the calculation of marks.
- ii. In order to obtain the PhD degree the candidate must:
  - pass the examinations and the prescribed modules, as determined in the study programme;
  - pass the thesis; and
  - pass the final examination on the thesis and general subject knowledge.

## Promotion to next study year

The progress of all doctoral candidates is monitored biannually by the supervisor and the postgraduate coordinator. A candidate's study may be terminated if the progress is unsatisfactory or if the candidate is unable to finish his/her studies during the prescribed period.



## Curriculum: Year 1

Students choose between TWS 990 and WIS 990.

### Core modules

#### Thesis: Applied Mathematics 990 (TWS 990)

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Module credits</b>         | 360.00                              |
| <b>NQF Level</b>              | 10                                  |
| <b>Prerequisites</b>          | No prerequisites.                   |
| <b>Language of tuition</b>    | Module is presented in English      |
| <b>Department</b>             | Mathematics and Applied Mathematics |
| <b>Period of presentation</b> | Year                                |

#### Thesis: Mathematics 990 (WIS 990)

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Module credits</b>         | 360.00                              |
| <b>NQF Level</b>              | 10                                  |
| <b>Prerequisites</b>          | No prerequisites.                   |
| <b>Language of tuition</b>    | Module is presented in English      |
| <b>Department</b>             | Mathematics and Applied Mathematics |
| <b>Period of presentation</b> | Year                                |



## Curriculum: Final year

Students choose between TWS 990 and WIS 990.

### Core modules

#### Thesis: Applied Mathematics 990 (TWS 990)

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Module credits</b>         | 360.00                              |
| <b>NQF Level</b>              | 10                                  |
| <b>Prerequisites</b>          | No prerequisites.                   |
| <b>Language of tuition</b>    | Module is presented in English      |
| <b>Department</b>             | Mathematics and Applied Mathematics |
| <b>Period of presentation</b> | Year                                |

#### Thesis: Mathematics 990 (WIS 990)

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Module credits</b>         | 360.00                              |
| <b>NQF Level</b>              | 10                                  |
| <b>Prerequisites</b>          | No prerequisites.                   |
| <b>Language of tuition</b>    | Module is presented in English      |
| <b>Department</b>             | Mathematics and Applied Mathematics |
| <b>Period of presentation</b> | Year                                |

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.