Universiteit van Pretoria Jaarboek 2018

MSc e-Wetenskap (02250193)

Minimum duur van studie	2 jaar
Totale krediete	180

Programinligting

*Hierdie inligting is slegs in Engels beskikbaar.

The curriculum for the MSc (eScience) coursework degree programme comprises 180 credits of coursework and a research component. One of the key features of the curriculum is a capstone project that runs parallel with coursework modules in the first year of study. During the capstone project, students will go through the entire cycles of solving a real-world data science problem, collecting and processing real-world data, designing methods to solve the problem, and implementing a solution. The capstone project and coursework prepare the student for the mini-dissertation problem supervised by an expert.

Toelatingsvereistes

The admission requirements are:

- an honours degree in either statistics, mathematics, computer science, physics, or related fields; AND demonstrable knowledge of basic principles of probability and statistics, computing, calculus and linear algebra;

  OR
- passing an entrance evaluation designed by the academic advisory committee of the programme within the consortium. An average of 65% at honours level is the minimum for consideration, although admission will be competitive and an honours average of at least 70% is highly recommended.
- Student numbers are limited to a maximum of 30.
- Admission is additionally dependent on availability of supervisor/s and/or projects within the participating departments.
- Historical performance during prior studies will also be considered in selecting students. Specific attention will be given to modules repeated and duration of study.
- The research proposal of applicants should be in line with the research focus of the participating departments.
- Any further additional entrance requirements as specified by the head of department in consultation with the departmental postgraduate selection committee.
- The head of department, in consultation with the departmental postgraduate selection committee and participating departments reserves the right to prescribe additional modules.

Ander programspesifieke inligting

Candidates are required to familiarise themselves with the General Regulations regarding the maximum period of registration and other requirements for master's degrees.

Bevordering tot volgende studiejaar

The progress of all master's 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.

Subject to exceptions approved by the dean, on recommendation of the head of department, and where applicable, a student may not enter for the master's examination in the same module more than twice.

Slaag met lof

The MSc degree is conferred with distinction to candidates who obtain a final average mark of at least 75%, with a minimum of 65% in each module, and a mark of at least 75% for the mini-dissertation from each of the members of the examination panel. Where a member of the examination panel awards a mark of less than 75% for the mini-dissertation, that member of the examination panel must offer, in writing, support for his/her decision, or indicate in writing that he/she supports the examination committee's decision to confer the degree with distinction.

Kurrikulum: Jaar 1

Minimum krediete: 90

Kies 4 modules uit die lys keusemodules ter waarde van 60 krediete.

Kernmodules

Navorsingsmetodes en dekklip projek in datawetenskap 801 (NEP 801) - Krediete: 15.00
Dataprivaatheid en -etiek 802 (NEP 802) - Krediete: 15.00

Keusemodules

Aanpasbaarheidsverwerking en masjienleer 803 (NEP 803) - Krediete: 15.00
Datavisualisering en -bestudering 804 (NEP 804) - Krediete: 15.00
Grootskaalse verwerkingstelsels en wetenskaplike verwerking 805 (NEP 805) - Krediete: 15.00
Wetenskaplike grondslae van datawetenskap 806 (NEP 806) - Krediete: 15.00
Besondere temas in datawetenskap 807 (NEP 807) - Krediete: 15.00
Statistiese grondslae van datawetenskap 808 (NEP 808) - Krediete: 15.00
Grootskaalse optimalisering vir datawetenskap 809 (NEP 809) - Krediete: 15.00

Kurrikulum: Finale jaar

Minimum krediete: 90

Fundamentele modules

Miniverhandeling: e-Wetenskap 800 (NEP 800) - Krediete: 90.00

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die Algemene Regulasies (G Regulasies) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertroud met hierdie regulasies sowel as met die inligting vervat in die Algemene Reëls sal wees. Onkunde betrefffende hierdie regulasies en reels sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.