

Applied Machine learning

Offered by Stellenbosch University

What to expect?

In this module students will be exposed to a wide range of machine learning techniques and gain practical experience in implementing them. Students will not only learn the theoretical underpinnings of several machine learning techniques, gaining an important understanding of the requirements, inductive bias, advantages and disadvantages, but also will gain the practical know-how needed to apply these techniques to real-world problems. The focus will be on information-based learning, similarity-based learning, error-based learning, kernel-based learning, probabilistic learning, ensemble learning, and incremental learning.

Minimum admission requirements

The applicant must at least hold an approved BTech, BEng, or a BSc degree from a South African university or university of technology. In cases where the applicant's prior learning makes him/her a suitable candidate for the short course, his/her prior learning will be considered by the course leader in the application process. In taking part in this course, it is expected of the student to either:

- Have prior experience in the fields of programming and data sciences,
- Has successfully completed a course in programming and data sciences.

If either one of these requirements is not met, it is expected of the student to do some prior reading in preparation for this course. Contact the course facilitator for further details if this is the case.

PRESENTERS

Prof A Engelbrecht, Industrial Engineering [View Bio](#)

LE Burger, Industrial Engineering [View Bio](#)

PRESENTATION MODE AND DATES

This short course is presented online. [View dates](#)

The course consists of three parts:

2 Pre-block weeks

1 Lecture week

6 Post block weeks

REGISTRATION

[Register here](#) 2 weeks before the Pre-block starts.

* Take note: your registration and proof of payment must reach us before the Pre-block starts to gain access to the platform SUNOnline.

ASSESSMENT

Pre-block assignment	20%
Lecture week assessments	20%
Post block assignments	3 x 20%

CERTIFICATE OF COMPETENCE

Requirements - 50% average over all assignments submitted

FEES 2022: R 20 000

NQF Level 8

CONTACT

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