

Postgraduate Diploma

INDUSTRIAL ENGINEERING

Offered by Stellenbosch University

Focus: Data Sciences

Data science is the scientific investigation that employs innovative approaches and algorithms, most notably machine learning algorithms, for processing and analysing data. Data Science technologies can be applied to both small and big data, of various types such as relational, images, video, audio, and text. Big data constitutes extremely large data sets that may be analysed computationally to reveal patterns, trends and associations, especially relating to human behaviour and interactions.

The data science programmes focus on enabling students to develop innovative optimisation and machine learning techniques to produce novel, efficient and robust data science technologies, for use in Industrial Engineering, Engineering Management and related applications.

PGDip programme structure

120 credit programme - 8 x 15 credit modules

- Programming in R
- Data Sciences (Eng)
- Applied Machine Learning (Eng)
- Optimisation (Eng)
- Big Data Technologies (Eng)
- Data Analytics (Eng)
- Industrial Management
- Project Management

Additional module: Professional Communication

Updated Feb 2024



ACADEMIC HEAD OF PROGRAMME

Prof AP Engelbrecht
Voight Chair in Data Science

SU and Industry lecturers
[View Lecturers' Bios](#)



PRESENTATION MODE

FULLTIME and PARTTIME
ONLINE or in person at SU

Module based with continuous assessment

- 2 weeks pre-reading
- 1 week lectures (synchronous)
- 6 weeks post block assignments



APPLICATION

Apply [here](#).



APPLICATION DATES 2025

Applications open April 2024.
Find closing dates [here](#).



REQUIREMENTS

Get requirement information [here](#).



FURTHER INFORMATION

Visit our [website](#).



CONTACT

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