



IIE Postgraduate Diploma in Data Analytics

Faculty Science & Technology
School of Computer Science

1 Year Full-Time Postgraduate Diploma | NQF Level 8
120 Credits | SAQA ID: 117788 | PDDA0801

- **Durban North**
- **Sandton**
- **Newlands, Cape Town**

Qualification Description

The purpose of The IIE Postgraduate Diploma in Data Analytics is to undertake advanced reflection using systemic thinking, practices and research methods in data analytics. The programme aims to further the development of fundamental knowledge in Big Data, Data Visualisation, Artificial Intelligence (AI), Machine Learning (ML) and Statistics. Upon completion of the programme, graduates would have attained the theoretical and technical skills in Data Analytics to inform business decisions and articulate into an appropriate Master's Degree.

Since the aim of the qualification is to develop a Data Analyst who is equipped with theoretical, technical and practical knowledge, it is all important that graduates attain a thorough grounding in statistical and mathematical fundamentals.

Therefore, the Statistical and Mathematical Analysis module will provide students with mathematical and statistical theory, concepts and practical knowledge which are required to interpret and interrogate data. The programme will build on students' existing skills in programming and database development.

Who Is This Qualification Aimed At?

The IIE Postgraduate Diploma in Data Analytics is aimed at students who want to advance their knowledge in fundamental knowledge in Big Data, Data Visualisation, Artificial Intelligence (AI), Machine Learning (ML) and Statics. Through this qualification students will gain technical skills in Data Analytics to inform business decisions.



CONTACT FULL-TIME

DISTANCE (ONLINE)

Admission Requirements

Minimum Admission Requirements	An appropriate HEQSF Level 7 Bachelor's degree; OR An appropriate Advanced Diploma; OR An equivalent NQF Level 7 qualification	
	Note: The qualification must include modules that provided the applicant with at least an introductory level background in programming, databases, and statistical or numerical methods. Alternatively, the candidate must have a minimum of 3 years' experience working in a data analytics role; or they must first complete additional modules or short courses that will provide them with an introductory level background in programming, databases, and statistical or numerical methods. Example modules would include Programming 1A, Databases, and Mathematical Principles for Computer Science; or alternatively short courses such as Python or Java programming, database theory, and statistical or numerical methods.	
	International	A SAQA Evaluation Certificate with NQF L7 equivalence in an appropriate field.

Scan the QR Code to learn more about Alternate Admission requirements for:
RPL | Mature Age Exemptions | USAf International Students | One module outstanding from a Higher Certificate *If applicable



Curriculum Structure

Year 1							
Semester 1				Semester 2			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
DANA8411	Data Analytics 1	8	15	DANA8412	Data Analytics 2	8	15
PDAN8411	Programming for Data Analytics 1	8	15	PDAN8412	Programming for Data Analytics 2	8	15
RPDA8411	Research Proposal	8	15	RPDA8412*	Research Project	8	15
SMAA8411	Statistical and Mathematical Analysis	8	15	DASC8412	Data Science	8	15

*There are prerequisites for this programme that must be met in order to progress through the qualification

Further Study Pathways

The successful completion of The IIE Postgraduate Diploma in Data Analytics (PDDA0801) enables you to progress into the following qualification/s subject to meeting the admission requirements:

- IIE Master of Strategic Information and Communication Technology Management (MSIT0901)

Career Opportunities

- Data Analyst
- Data Scientist
- Data Engineer
- Big Data Analyst
- Business Intelligence Analyst
- Quantitative Analyst
- Any field that requires the analysis of data to yield strategic value

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Please note, details are correct at the time of publication.

Timetables

This qualification is aimed at students who wish to complete full-time face-to-face studies for the duration of their qualification. This means that students are expected to be available Mon-Fri 8:00 – 17:00 throughout the day for class in the academic year depending on how the timetable is structured.

Students must also note that timetables remain subject to change throughout the academic year.

System and Software Requirements

- The appropriate technology equipment and tools are essential.
- A reliable internet connection (we recommend 5-10 GB of data per month), your own device with at least Windows 8 or macOS 10.15 (Microsoft Office 365 is available as a free download for students), and Google Chrome, Microsoft Edge Chromium or Firefox.
- An uninterrupted power supply is also highly recommended.
- A working webcam and microphone.
- For School of Computer Science students, it is advised that you purchase your own 500GB HDD and 8GB RAM minimum.
- Should you wish to run Android Studio on your laptop – you will need the following:
 - Processor: i5/i7
 - RAM: 32
 - HDD: 500GB SSD
- All students in The IIE Postgraduate Diploma in Data Analytics will be provided with access to a Virtual Machine, where you will be able to run the software required for specific modules in your qualification. Students will be required to complete certain module specific assessments via their Virtual Machine.

Graduation and Completion Requirements for This Qualification

In order to be awarded this qualification, you must have achieved a minimum final year mark of fifty percent (50%) for all 8 modules in the curriculum.

As a full-time (contact) student, this qualification is structured to be completed over 1 year. The maximum time for completing a qualification full-time is double the minimum time associated with the qualification, and for part-time an additional year is allowed.

Apply Online

After your application is submitted, we will review your documentation and provide an outcome regarding your chosen study.



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