School of Information Technology

Varsity College — IIE

IIE Post-Graduate Diploma in Data Analytics
Contact : Full-time

INTRODUCTION

The purpose of the IIE Post-Graduate 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 also 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.

ADMISSION REQUIREMENTS

An appropriate HEQSF Level 7 Bachelor's degree; OR
An appropriate Advanced Diploma; OR
An equivalent NQF Level 7 qualification
Students must be proficient in English

The undergraduate 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 of 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.

Senate Discretionary Admission
Recognition of Prior Learning (RPL)

Where candidates do not satisfy the formal admission requirements for this qualification, The IIE may consider an admission application in terms of the Credit Accumulation and Transfer, Recognition of Prior Learning and Qualification Completion Policy (IIE010).

International
A SAQA Evaluation Certificate with NQF L7 equivalence in an appropriate field

Please note, requirements for entry to this qualification are correct at the time of printing, however, these may change. At the time of registration, please check that the entry requirements have not changed.

CURRICULUM

Semester 1	NQF Level	Credit Value	Semester 2	NQF Level	Credit Value
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

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

Details are correct at the time of printing
V1 24 August 2022