

# Certificate in Big Data Technologies NQF (Level 7)



This programme capacitates students knowledge of storage, processing, and analysis of big data. It explores the practical skills required to turn large volumes of data into actionable insights. This will be done through the designing and building of platforms and systems that can handle the gigantic amount of data available today. The programme further aims to develop students' abilities to analyse big data using intelligent techniques.

## Who Should Attend?

Applicants who have completed a Diploma programme in Computer Science, Information Systems, Information Technology or Informatics or an equivalent qualification from an accredited institution (NQF Level 6). Applicants with one-year experience in the aforementioned fields will be given priority. Applicants from other science and engineering disciplines or with prior learning experience may be admitted into this programme at the discretion of the Centre. Such applicants may be required to write a test or an interview to guide the selection.

## Programme Outcomes

- Examine the history and evolution of big data, the essential characteristics of big data, and the business challenges that it resolves.
- Demonstrate an in-depth knowledge and understanding of established and emerging big data technologies.
- Manage and administer big data technologies at an appropriate scale.
- Model and design efficient solutions for the processing and analysis of big data.
- Demonstrate exceptional problem-solving can expertise in Big Data Analytics domain.
- Use emerging technologies to solve current data engineering challenges.
- Communicate effectively insights derived from big data to organisational stakeholders.

## Certificate

Upon successful completion of this courses, a qualification credited with a minimum of NQF 60 credits (NQF Level 7), will be awarded to candidates.

## Programme Design

Each programme consists of four or five courses scheduled over one semester and as well as a project. The programme will be delivered on full-time (day and/or evening) in accordance with NUST rules. The Following courses in this programme are:

- Fundamentals of Linux programming
- Database Concepts and Data Collection
- Java Programming
- Big Data Technologies
- Project Development

## Assessment

Continuous Assessment with Feedback (diversified) will be used for all courses.

*Note: This programme is not eligible for admission to an NQF Level 8 qualification*

## Enquiries:

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