MASTER OF SCIENCE IN DATA ANALYTICS

Awarding Institution	Malawi University of Business and Applied Sciences
Duration	2 years
Entry Requirements	Relevant BSc. Degree
Applications and Admission	Refer to the MUBAS Call for PG Applications https://bit.ly/3SuB2La

1. Aim

The MSc in Data Analytics programme aims to develop high-level skills in problem identification, data acquisition, analysis, and exploration, data narrative communication, and exposure to real-world big data challenges through industry partnerships.

2. Objectives

The objectives of the MSc in Data Analytics are the development of high skills in:

a) Identifying and defining problems and decisions that can be answered by data
b) Acquiring, analysing, and exploring data
c) Managing and communicating data narratives (stories) that transform data into actionable information.

3. Specialisation

The program offers two specialisations:

a) Data Engineering
b) Business Analytics

Students opting for Data Engineering are required to select Algorithms Analysis and Design and Machine Learning. The topic of the research project must be closely related to data engineering.

Students opting for Business Analytics are required to select, Forecasting and Business Analytics and Data Governance and Ethics. The research project must be closely related to the field of Business Analytics.

4. Intended Audience

The program benefits both career entry and career development graduates. Career entry graduates gain theoretical knowledge and analytical skills while understanding how to apply them in an organisational context. Career development graduates integrate new knowledge with professional experience, reflect on past experience, and excel in analysing and solving complex problems involving big data, analytics, and machine learning.

5.   Modules

Core Modules:
Data Management, Statistical Methods for Data Science, Artificial Intelligence, Business Intelligence, Cloud Computing and Big data, Research Methods and Scientific Writing, Research Project.

Elective Modules:
Programming for Data science (R or Python), Information Systems Analysis and Design, Information Systems and Business Strategy Alignment, Forecasting and Business Analytics, Algorithms Analysis and Design, Machine Learning, Data Governance and Ethics, Global Professional Development – Consultancy.