



UNIVERSITY  
OF  
JOHANNESBURG

SCHOOL OF CONSUMER  
INTELLIGENCE AND  
INFORMATION SYSTEMS



# SHORT LEARNING PROGRAMME (SLP)

## Basics of Data, Programming and Applications in Business

The Future  
Reimagined

# BASICS OF DATA, PROGRAMMING AND APPLICATIONS IN BUSINESS

## PREAMBLE

The School of Consumer Intelligence and Information Systems, is pleased to offer a short learning programme (SLP) in 'Basics of Data, Programming and Applications in Business' to industry. This SLP is part of a digital-know how series of short learning programs offered by the School of Consumer Intelligence and Information Systems at the University of Johannesburg. With developments in the Fourth Industrial Revolution (4IR), digital know-how is demanded of every professional irrespective of one's disciplinary background. The University of Johannesburg is playing a leading role in reskilling and upskilling professionals for the Fourth Industrial Revolution.

## PURPOSE

The purpose of this short learning programme is to introduce students to the foundations of data analysis, programming and their application in addressing business challenges.

Upon completion of this short learning programme, participants will be able to analyse data using basic statistical and computation techniques as well as write simple codes/ programs to solve business problems.

## ENTRY REQUIREMENTS

This short learning programme is at a South African National Qualification Framework (NQF) level 6. Applicants needs to have at least a National Senior Certificate or equivalent qualification.

## TIMELINES

This programme is offered online over 3.5 months (14 weeks period). Students will be required to undertake independent readings and complete online activities and assessments. Live facilitated online sessions may also be scheduled to assist students to grasp the learning content.

## HOW TO APPLY

All applications are done online. [Click here](#) to apply or visit the UJ homepage [www.uj.ac.za](http://www.uj.ac.za) and click on the **Study@UJ** to apply for this programme.

The closing dates for application for **January – May** intake is **28 November** while for **July – November** intake is **28 June**.

## REGISTRATION

For assistance with registration, please contact:

Ms Fareea Dangor: [fdangor@uj.ac.za](mailto:fdangor@uj.ac.za) or

Ms Nontokozo Mokoena: [nmokoena@uj.ac.za](mailto:nmokoena@uj.ac.za)

## PROGRAMME OVERVIEW

This programme is offered through technology-assisted learning, including use of the online learning platform BlackBoard. The following topics will be covered:

- Data – types, structures and sources
- Data analysis techniques – statistical and computational techniques
- Programming paradigms and functions
- Introduction to programming using Python
- Data manipulation using Python
- Program/code writing to address simple business, economic and societal challenges
- Program testing and business requirements validation

## ASSESSMENT

Assessments in this programme comprise of online assignments, practical work including a group project. Upon successful completion of the programme, participants will receive a certificate of competence from the University of Johannesburg.

## ENQUIRIES

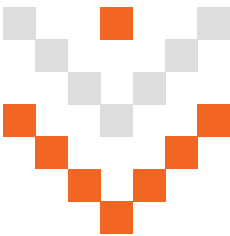
For further information and queries relating to programme content, you may contact:

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**College of Business and Economics**

School of Consumer Intelligence and Information Systems (SCiIS)

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