School of Continuing Education
Nile University

Data Analysis Diploma

Nile University – School of Continuing Education

From Python and Excel to SQL and Power BI – a practical, project-based programme.

DURATION **Approx. 4.5 months**	FORMAT **100% online, live**
LEVEL **Beginner-friendly**	FEE **EGP 8,500**

Special fee for Nile University students and alumni: EGP 7,500

SECTION 1

Frequently Asked Questions

DURATION	FORMAT	TUITION	LEVEL
Approx. 4.5 months Live online sessions	**100% online** Live, with recordings	**EGP 8,500** NU students/alumni: EGP 7,500	**Beginner-friendly** No prior experience needed

1 **How long is the diploma?**
The diploma lasts approximately 4.5 months.

2 **Is the diploma online or on campus?**
The diploma is delivered entirely online.

3 **How much does the diploma cost?**
Regular Fee **EGP 8,500**
Special Fee for Nile University Students and Alumni **EGP 7,500**

4 **Who are the instructors?**
The diploma is conducted under the supervision of Dr. Noha Gamal El-Din and her team of engineers, all of whom have previous teaching experience.

5 **Are installment payments available?**
No. The diploma fee must be paid in full.
Installment plans are not available.

6 **Are the sessions live or pre-recorded?**
All sessions are delivered live online, allowing participants to interact with instructors and ask questions during the sessions.

However, recorded sessions are uploaded to Google Drive approximately one or two days after each lecture.

7 **How long will I have access to the recorded lectures?**
Participants will retain access to the recorded lectures for four months after completing the diploma.

8 **Is the certificate accredited?**
Participants receive a certificate accredited by Nile University only.

9 **What is the attendance policy?**
Participants are allowed a maximum absence rate of **25%**. They are also expected to complete the required assignments after each lecture.

10 **Is this diploma suitable for complete beginners?**
Yes! The diploma starts from the very beginning and is designed for learners with no previous programming or data analysis experience. Participants will gradually develop their skills through practical exercises and real-world projects.

11 **Who should enroll in this diploma?**
The diploma is suitable for university students, fresh graduates, career starters, and professionals who want to develop their analytical and technical skills.

It can benefit people working or studying in fields such as:

- Business Administration and Management
- Accounting and Auditing
- Finance and Banking
- Marketing and Digital Marketing
- Medicine and Healthcare
- Pharmacy and Pharmaceutical Sciences
- Engineering
- Computer Science and Information Technology
- Economics
- Human Resources
- Sales and Business Development
- Supply Chain and Logistics
- Operations and Project Management
- Research and Academia
- Entrepreneurship and Business Ownership
- Law and Legal Services
- Other fields that involve data, reporting, research, or decision-making

Data analysis skills can be applied across industries to support better decision-making, understand performance, identify trends, and solve business problems.

SECTION 2

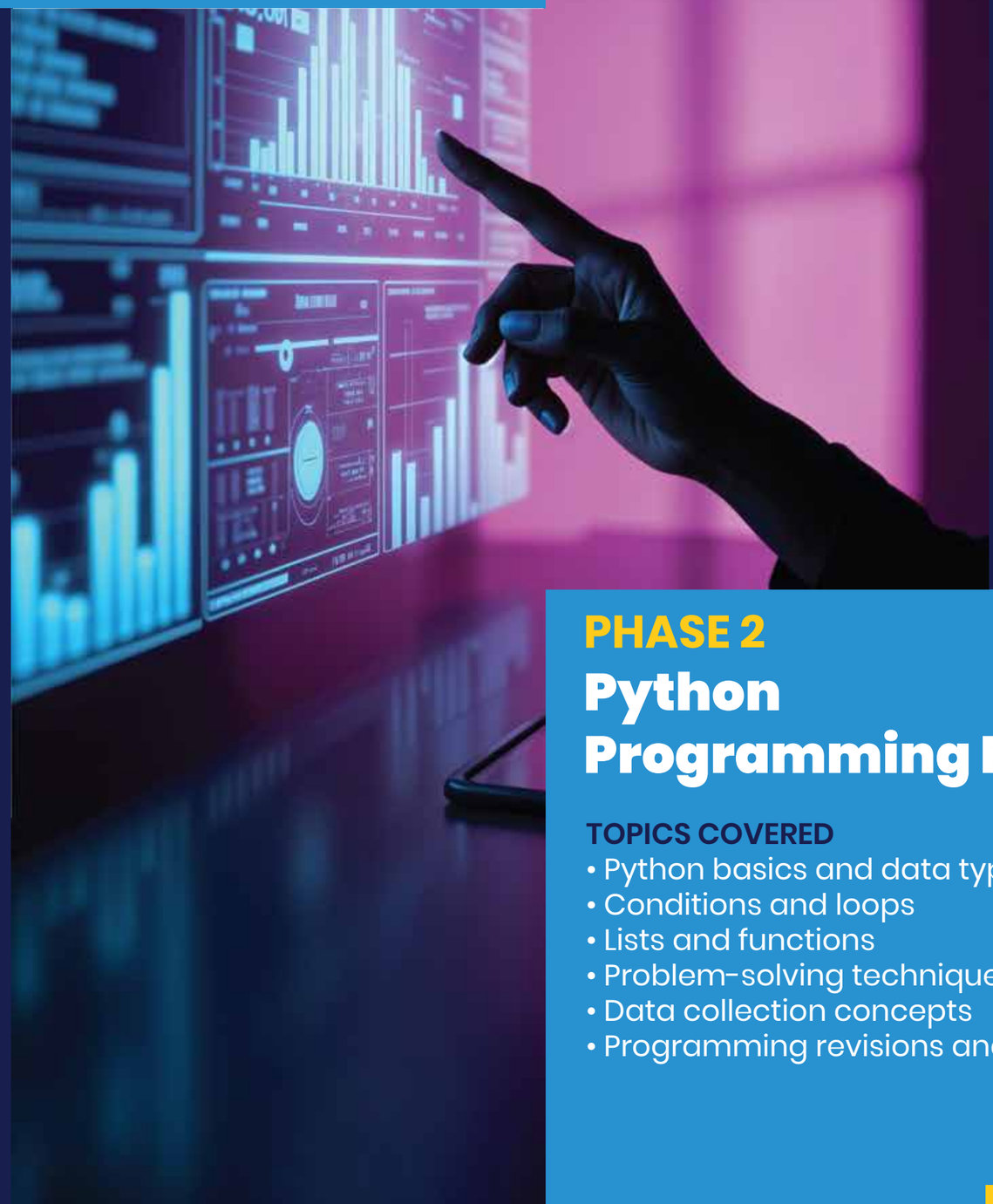
Detailed Course Outline

The curriculum is organized into six clearly defined phases.

PHASE 1
Foundations & Analytical Thinking

TOPICS COVERED

- Course overview and data analysis concepts
- Mathematical operations
- Mean, Median, and Mode
- Variance and Standard Deviation
- Probability basics



PHASE 2
Python Programming Fundamentals

TOPICS COVERED

- Python basics and data types
- Conditions and loops
- Lists and functions
- Problem-solving techniques
- Data collection concepts
- Programming revisions and practice

PHASE 3
Python for Data Analysis

TOPICS COVERED

- Pandas library
- Sampling techniques
- Data preprocessingand cleaning
- Working with real-world datasets
- Data visualization
- Web scraping
- Introduction to Machine Learning:
  - Linear Regression
  - Clustering

PHASE 4
Excel for Business Analytics

TOPICS COVERED

- Excel formulas
- Pivot Tables
- Dashboards
- Data visualization
- REGEX formulas
- Power Query

PHASE 5
Databases (SQL)

TOPICS COVERED

- Database concepts: ERD and EER
- SQL commands: DDL and DML
- Database relationships
- Joins and Views
- Database normalization
- DCL commands

PHASE 6
Business Intelligence (Power BI)

TOPICS COVERED

- Power BI fundamentals
- Power Query
- Data visualizations
- DAX functions
- Interactive dashboards
- Slicers and reporting design



1	Python Problem-Solving Tasks	PROJECT 1
2	Python for Data Analysis: Real-World Case Study	PROJECT 2
3	Complete Excel Project	PROJECT 3
4	Database Project	PROJECT 4
5	Power BI Dashboard	PROJECT 5

SECTION 3

Practical Projects

Hands-on projects are included throughout the diploma,
o participantsapply every new skill in practice.

THE CULMINATION OF YOUR LEARNING JOURNEY

Final Capstone Project

Python + Power BI

The final project brings together Python-based data analysis
and Power BI visualization and reporting skills in one complete project.

Contact Us

Get In Touch With Us

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https://wa.me/message/EBLPBHWTUUIRG1

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