



SIIMT

University College

DIPLLOMA IN

DATA ANALYTICS

COURSE SYLLABUS

Duration - 6 months



WHY CHOOOSE US ?

PRACTICAL HANDS-ON

BRIDGING KNOWLEDGE WITH EXPERIENCE, SHAPING SKILLS, AND PREPARING FOR REAL-WORLD SUCCESS

INDUSTRY

EXPERTS:

STUDENTS LEARN FROM INDUSTRY EXPERTS, SHAPING SKILLS FOR REAL-WORLD SUCCESS AND JOB MARKET.

UPDATED SYLLABUS

OUR SYLLABUS ENRICHES LEARNING, FOSTERING SKILLS, AND PREPARES STUDENTS FOR A BRIGHTER FUTURE



OUR TEACHING STRATEGY

Each module will include a combination of theoretical concepts, practical exercises, and real-world case studies to ensure that students gain a comprehensive understanding of data analysis techniques and tools.



OUR REQUIREMENT

- Prior proficiency in ICT tools such as Word, PowerPoint, and Excel is mandatory
- For complete beginners we offer ICT course tailored to meet this prerequisite



LAPTOP REQUIRED

- Windows OS
- Minimum i5 processor
- Minimum 8GB RAM
- Sufficient Space



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FEES

- **GHC 8000** for Ghanaians
- **GHC 9500** for Non-Ghanaians



DURATION OF THE COURSE

- 6 MONTHS (APPROXIMATELY)

WEEKDAY EVENING BATCHES

- **BATCH 1 - MONDAY & TUESDAY**
 - 6:00 PM to 8:00 PM
- **BATCH 2 - WEDNESDAY & THURSDAY**
 - 6:00 PM to 8:00 PM

WEEKDAY EVENING BATCH

- **BATCH 1 - SATURDAY**
 - 10:00 AM to 2:00 PM



MODULE 1

INTRODUCTION TO DATA ANALYSIS



In this module, students will be introduced to the fundamentals of data analysis, including its importance, basic concepts, and techniques.

Topics covered will include:

- Overview of Data Analysis
- Importance and Applications of Data Analysis
- Data Flow & Data Analyst Ecosystem
- Types of Data: Structured vs Unstructured Data
- Data Collection & Mining Methods
- Data Analysis Tools and Technologies
- Emerging Technologies
- Report Making in Data Analysis
- Case Studies and Real-world Examples
- Career Path & Opportunities

MODULE 2

EXCEL FOR DATA ANALYSIS



This module will focus on utilizing Microsoft Excel as a tool for data analysis. Students will learn various functions and features of Excel that are commonly used in data analysis tasks.

Topics covered will include:

- Introduction to Excel and its interface
- Online Collaboration tools
- Shortcut methods for Excel
- Feature Excel for Data Analysis
- Data importing and formatting in Excel
- Basic and advanced Excel functions
- Pivot tables and pivot charts
- Data visualization using Excel
- Creating interactive Dashboards
- Practical exercises and case studies
- Real-World Projects for Portfolio

MODULE 3

DATABASE MANAGEMENT & SQL



This module will cover the basics of database management systems (DBMS) and Structured Query Language (SQL) for data manipulation and retrieval.

Topics covered will include:

- Introduction to databases and DBMS
- Relational database concepts
- Installing MySQL Workbench
- Creating and managing databases
- SQL fundamentals: querying data, filtering, sorting, and grouping
- Join operations in SQL
- Practical exercises and hands-on SQL queries
- Assignments for Practice
- Online Resources like HackerRank & LeetCode

MODULE 4

MICROSOFT POWERBI



This module will focus on using Microsoft PowerBI as a business intelligence tool for data visualization and analysis.

Topics covered will include:

- Introduction to PowerBI and its features
- Connecting to various data sources
- Data transformation and modeling in PowerBI
- Creating interactive dashboards and reports
- Advanced data visualization techniques
- Sharing and collaborating on PowerBI projects
- Case studies and real-world examples demonstrating the use of PowerBI in data analysis

PORTFOLIO PROJECT

WORKING ON REAL WORLD DATASET FOR ANALYSIS



- Interactive dashboard using Excel using Call Centre Data
- Building an Employee management system for a Company using SQL and MySQL Workbench
- Using COVID-19 pandemic Data for Insight Analysis and creating an Interactive Dashboard using Power BI
- Finding Patterns and Insight from E-commerce data using Power BI visualization tools

Projects are subject to change with time

TO REGISTER FOR DIPLOMA IN DATA ANALYTICS

[CLICK HERE](#)

OR

Visit www.siimtuni.edu.gh to apply now



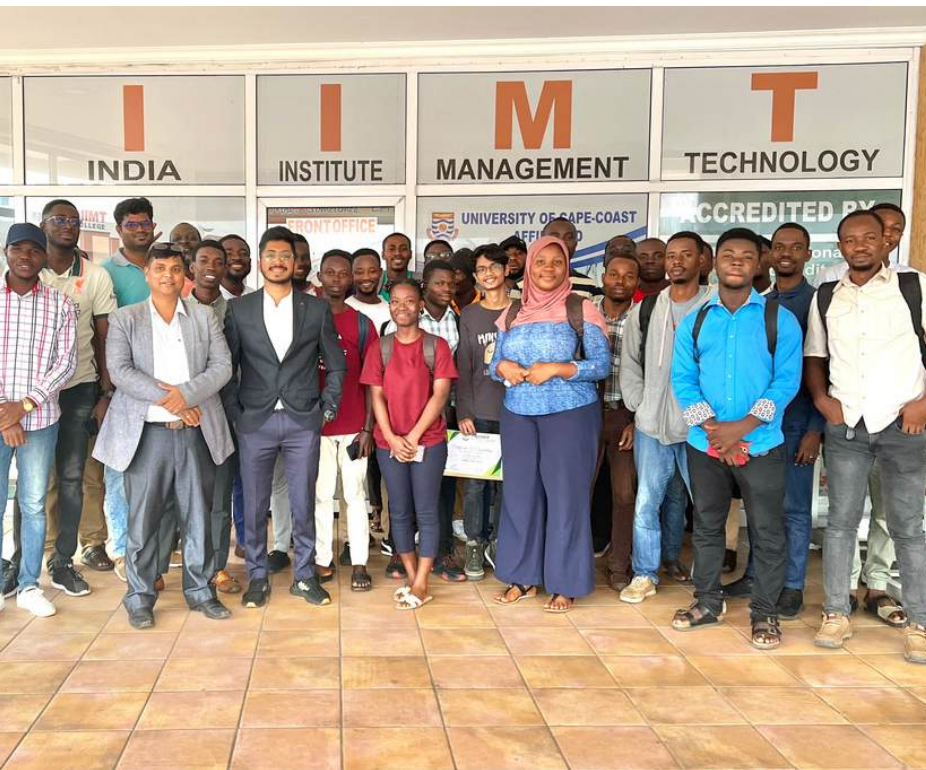
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College**

SIIMT UNIVERSITY COLLEGE

OUR GOAL

We aim to provide high-quality education with practical hands-on training, preparing students for leadership roles and employment opportunities.



EXCELLENCE



INNOVATION



PRACTICALITY



INTEGRITY

ABOUT US

- The SIIMT is an Indian-based Ghanaian University College established in 2013 at Labone, Accra before relocating to its current premises near the Nima Police Station at the foot of the Nima-Kanda overpass, Accra in 2018
- The SIIMT was accredited by the **Ghana Tertiary Education Commission (GTEC)** in 2019 to run the Undergraduate Programmes affiliated to University of Cape Coast. It was also accredited by the **Council for Technical and Vocational Education and Training (CTVET)**, to run technical and vocational courses.





SIIMT University College

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