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Information Design & Data Visualisation

Unlock data's potential with this program, equipping staff with essential skills in analysis, visualization, and interpretation.

Master programming basics, data wrangling, and create impactful visualizations using Python, turning raw data into actionable insights for strategic decisions.



Learning **OUTCOME**

By the end of this course,
you will be able to:



01 Programming Basics

Coding basic programming using programming constructs.



02 Data Wrangling and Analysis using analysis package

- Identify methods for collecting data from various sources.
- Perform basic data retrieval, data wrangling and data analysis



03 Data Visualization

- Design and create clear, informative, and effective data visualizations using tools such Python.
- Communicate data insights through charts, graphs, and interactive dashboards to enhance understanding.

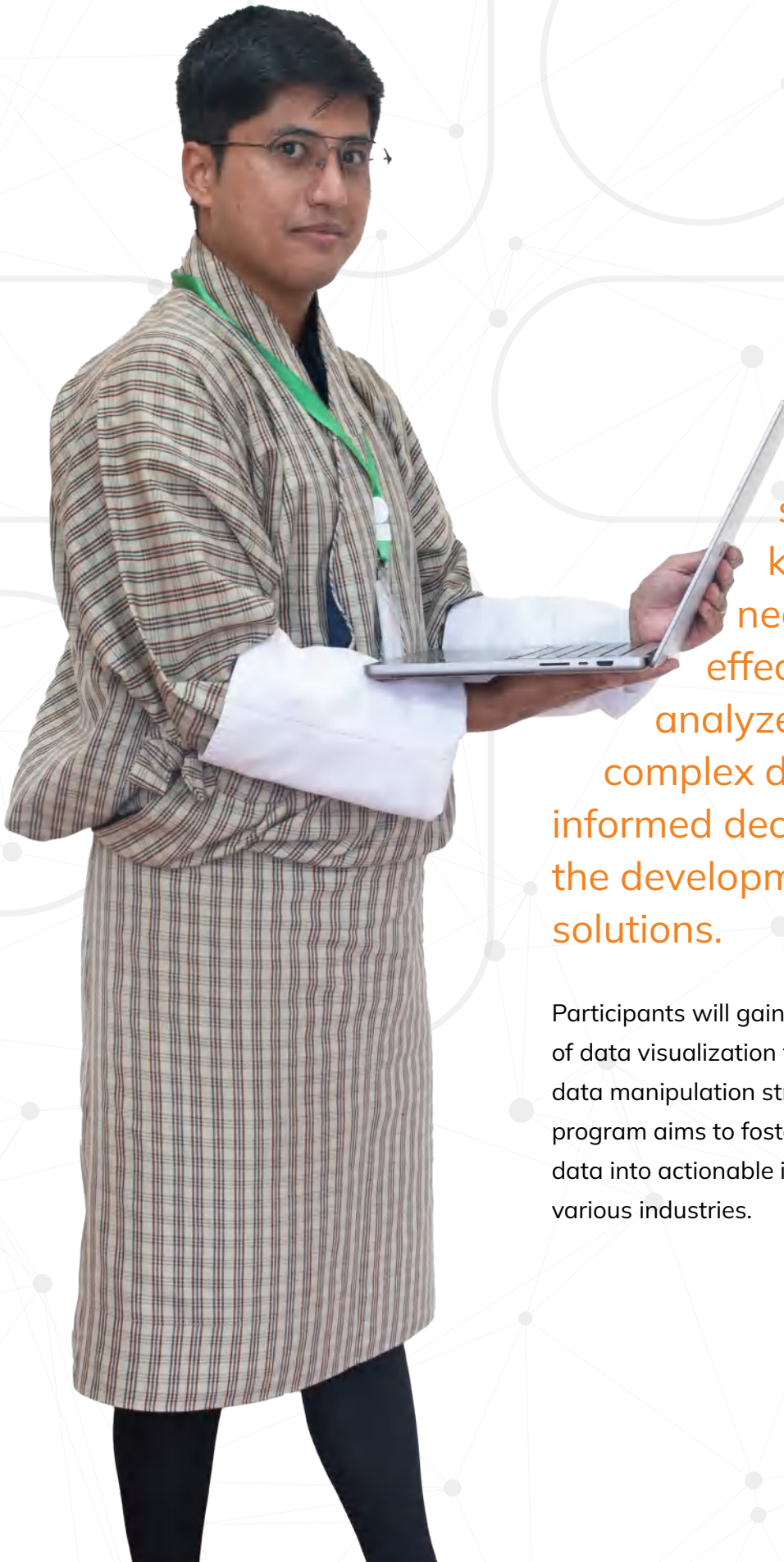


04 Effective Communication and Decision-Making

- Translate data insights into actionable recommendations for business strategies and decisions.
- Develop skills to present analytical findings effectively to stakeholders with varying levels of technical expertise.



Course OBJECTIVE



This program is designed to equip staff with the knowledge and skills necessary to effectively collect, analyze, and interpret complex data, enabling informed decision-making and the development of strategic solutions.


Participants will gain a comprehensive understanding of data visualization techniques, statistical methods, data manipulation strategies, and analytical tools. The program aims to foster the ability to transform raw data into actionable insights, applicable across various industries.



Course STRUCTURE

1 Programming Basics 

2 Data Wrangling and Analysis using Data Analysis Package 

3 Introduction to Data visualization 

4 Effective Communication and Decision Making 



Why This PROGRAM?

The Data Analytics program is essential in today's digital age, where the volume of data generated is immense and rapidly growing. Organizations need professionals who can analyze and derive actionable insights from this data to make informed, evidence-based decisions.




As the demand for data analytics skills surges across various industries, this program equips individuals with the expertise needed to stay competitive. By mastering data analysis, participants not only gain a significant advantage in the job market but also contribute to their organizations' success through optimized operations and innovative strategies. Additionally, the versatility of data analytics skills makes them valuable across multiple fields, enhancing problem-solving abilities and broadening career opportunities.



Things To **KNOW**



Prerequisite:



-  Basic knowledge of Python Programming
-  Foundation of Mathematics/Statistics and Microsoft excel
-  Jupyter Notebook/VS code/GoogleCollab








Class Information:

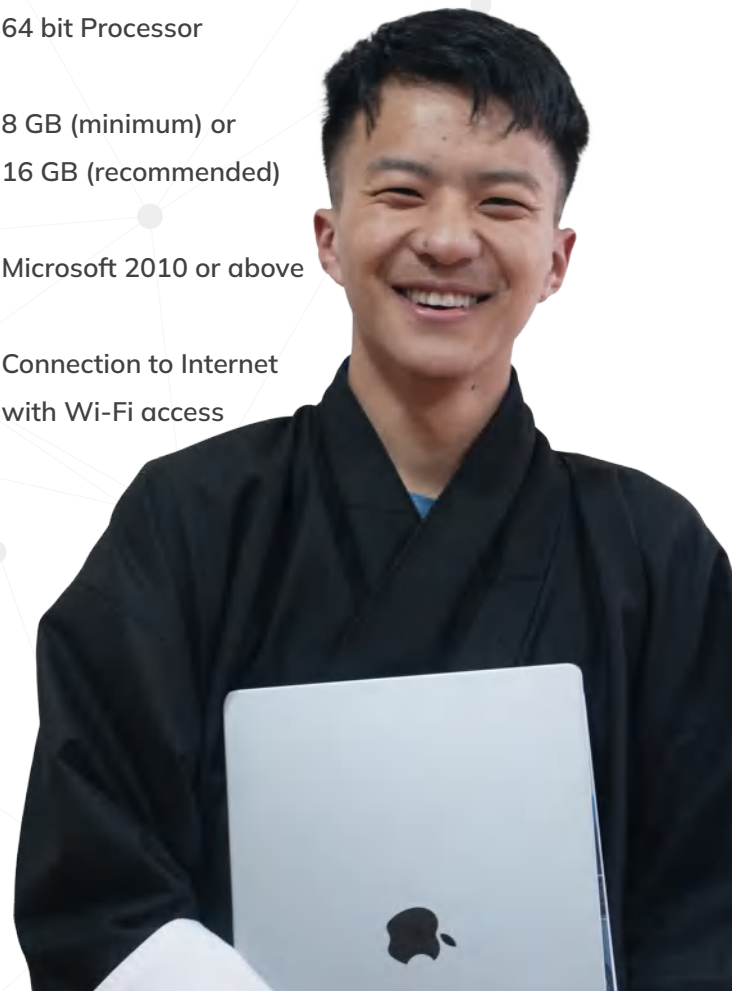


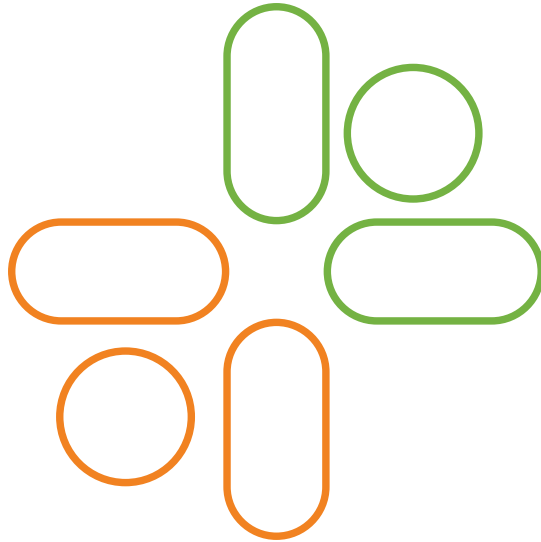
-  Duration: 40 Hours
-  Mode: Seminar / Face-to-Face

Minimum computer requirements:



-  Windows 10/11 Operating System or later version **(MAC OS IS ALSO SUPPORTED)**
-  Dual-Core CPU at 1.4 GHz or higher (Intel i4/i6 or equivalent)
-  At least 30 GB of available storage (more may be needed for large datasets)
-  64 bit Processor
-  8 GB (minimum) or 16 GB (recommended)
-  Microsoft 2010 or above
-  Connection to Internet with Wi-Fi access






Capable. Elevated. Thriving.



ceta.gcit.edu.bt

 info.ceta@gcit.edu.bt

 +975 77 132 432

 Thimphu, Bhutan