

REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Course Name: Basic Knowledge about MATLAB – Unlocking

the Power of Computational Excellence

Academic Year: 2022 - 2023

Course Curriculum

Objective:

Equip participants with foundational knowledge of MATLAB, enhancing their capabilities and understanding of its functionalities and applications.

Module 1: Introduction to MATLAB

- Overview:
- An inclusive session that sets the stage for the course, providing participants with an understanding of what to expect.
- An in-depth introduction to MATLAB, exploring its core features and the significance of its use in computational applications.

Module 2: Foundational Concepts

- Arrays in MATLAB:
- Understand the critical role of arrays, their creation, manipulation, and application in MATLAB.
- Mathematical Operations:
- Dive deep into the varied mathematical operations that MATLAB supports, from basic arithmetic to more complex computational

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tasks.

- Conditional Data Selection:
- Learn the art of selecting specific data under certain conditions, enhancing the capability to handle and process data effectively.
- Working with Tables of Data:
- Explore the functionalities associated with table data in MATLAB, understanding how to create, modify, and use tables effectively.
- Assessment I

Module 3: Practical Insights and Application

- Hands-on Training and Practice:
- Engage in practical exercises that reinforce learning and provide a real feel of MATLAB's capabilities.
- Assessment II
- Real-world Applications:
- Delve into real-world scenarios where MATLAB shines, understanding its relevance and application in various industries and research areas.

Module 4: Exploring Further with MATLAB

- Career Paths and Opportunities:
- Discover the potential career avenues and opportunities that expertise in MATLAB can open up, from roles in academia to positions in cutting-edge industries.
- Assessment III

Course Outcome: By the end of this course, participants will have a robust understanding of MATLAB, its functionalities, and its vast applications, paving the way for them to explore and leverage its capabilities further.

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