Course Name :   **Basic Knowledge about MATLAB – Unlocking the Power of Computational Excellence**

Academic Year :   **2021 - 2022**

Course Curriculum

Objective:

To familiarize participants with the fundamentals of MATLAB, instilling the knowledge and skills needed for computational tasks and applications.

Module 1: Kickstarting the MATLAB Journey

- Inaugural Session:

  - A warm welcome to participants, outlining the course's objectives, benefits, and the journey ahead.

  - A thorough introduction to MATLAB, addressing its core functionalities and its significance in computational domains.

Module 2: Building Blocks of MATLAB

- Exploring Arrays in MATLAB:

  - Unravel the nuances of arrays in MATLAB, including their creation, manipulation, and practical applications.

Campus : **Regent Education & Research Foundation Group of Institutions**
E-mail : **rerfkolkata@gmail.com**, Website : **www.rerf.in**

Campus Address:
Bara Kanthalia, Barrackpore
P.O: Sewli Telinipara, P.S.: Titagarh
Kolkata - 700 121
Tel.: 033-3008-5442/432/431, Fax: 033-3008-5442

Regd. Office Address:
11/3, Biresh Guha Street
7th Floor, Kolkata - 700 017
Tel.: 033-3221-3013

-Diving into Mathematical Operations:
  - Gain proficiency in MATLAB's varied mathematical capabilities, ranging from basic arithmetic to complex computations.

- Mastering Conditional Data Selection:
  - Equip oneself with techniques to selectively process data based on predefined conditions, enhancing data handling prowess.

- Harnessing Tables for Data Management:
  - Delve into MATLAB's table functionalities, learning to organize, modify, and extract data seamlessly.
- Assessment I

Module 3: Enhancing MATLAB Skills through Practice
- Interactive Hands-on Sessions:
  - Engage in hands-on training sessions to solidify the understanding of MATLAB and refine practical skills.

- Venturing into Real-world MATLAB Applications:
  - Understand the diverse real-world scenarios where MATLAB is applied, enriching one's perspective on its versatility and relevance.
- Assessment II

Module 4: Expanding Horizons with MATLAB
- Unveiling Career Opportunities:
  - Envision the myriad career trajectories available with MATLAB expertise, from specialized roles in tech companies to research-intensive positions.
- Assessment III

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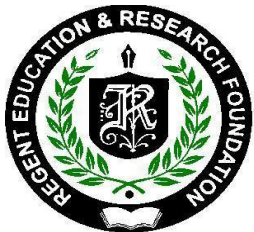E-mail : **rerfkolkata@gmail.com**, Website : **www.rerf.in**

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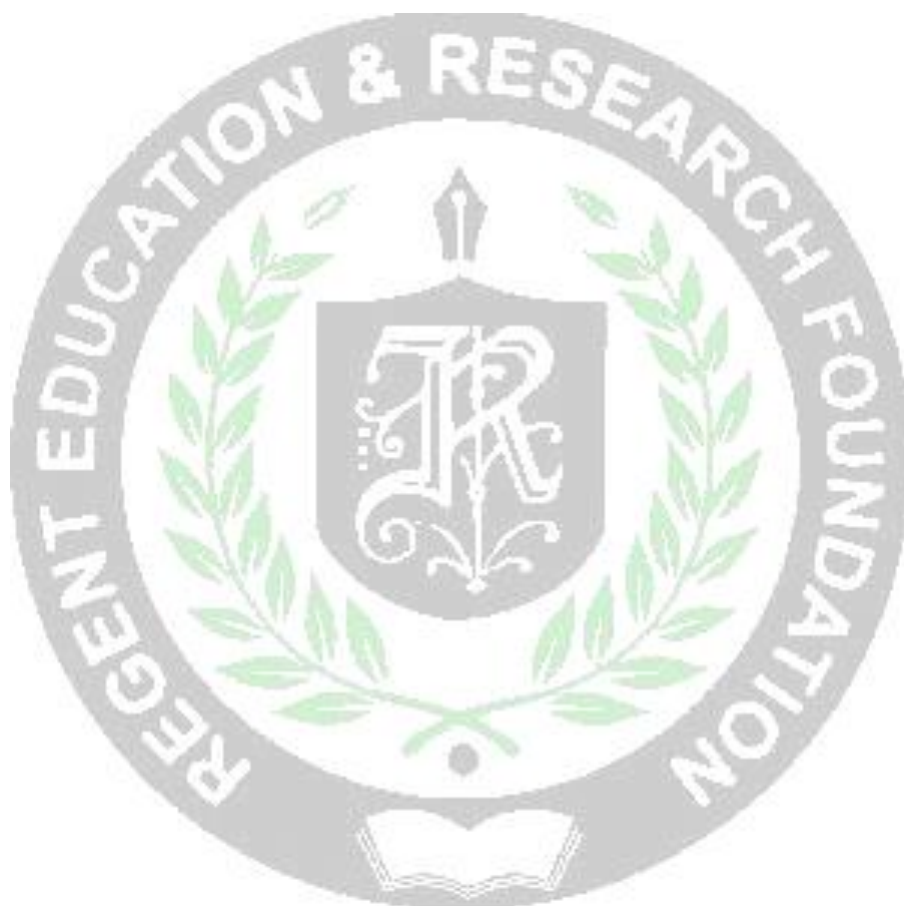**Kolkata - 700 121**
Tel.: 033-3008-5442/432/431, Fax: 033-3008-5442

Principal

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Course Outcome: Upon completion of this course, participants will be well-equipped with the foundational and advanced skills in MATLAB, positioning them advantageously in tech and research domains.

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