

One Week National Workshop

On

Development of Soft Skills

(MATLAB, LATEX & MATHEMATICA)

March 25-29, 2019

Registration form

1. Name:.....
2. Designation:.....
3. Gender:.....
4. Category:.....
(Faculty/Research scholar/Industry/Students)
5. Organisation:.....
.....
.....
6. Address:.....
.....
.....
7. Acomodation: Required
: Not Required
8. Mob. No.:.....
9. Email ID:.....
10. Highest Acad. Qualification:.....

Signature

- Email the the scanned copy of duly filled application form at: vivekanand@recabn.ac.in on or before March 12, 2019.
- You can also register online through given link: <https://goo.gl/forms/4JWsHgnoCeQ7GG5j1>
- Shortlisted candidates will be informed about their participation for the workshop on or before March 15, 2019.
- **Registration Fee: Nil**
- Free Fooding and Lodging will be provided in the hostel

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Development of Soft Skills

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March 25-29, 2019

Organized by

Department of Applied Science and Humanities

**Rajkiya Engineering College
Ambedkar Nagar (UP)-224122**

Sponsored By



CONTACT DETAILS

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Objective of the workshop:

This workshop aims to provide a comprehensive theoretical and hands on practical experience on MATLAB, LATEX and Mathematica to the beginners.

Course contents:

- MATLAB Introduction and Vector Operations, Variables and Matrix Operations.
- Conditional Branching, Iterations and Loops, Scripts and Functions.
- 2D, 3D Graphs and Advanced Plotting Commands.
- Zoomed plots, Symbolic Tool box (Mupad), Curve fitting Tool box, Memory Issue
- Numerical methods for solving ODEs with the help of MATLAB.
- Numerical optimization Technique, Mathwork and signal generation using MATLAB
- Introduction to LATEX, writing applications, research articles, thesis etc.
- Use of JabRef Reference Manager in LATEX.
- Introduction to Mathematica, basic arithmetic operations, 2D and 3D graphics and solution of algebraic equations etc.

Why MATLAB?

- MATLAB includes hundreds of mathematical functions. It has a high-level programming language allowing access to advanced data structures, 2D and 3D graphical functions.
- For usual engineering and science applications including mathematical operations and data analysis.
- Graphics functions to visualize annotate and export data and many ways to create and customize various types of plots and charts.
- Algorithms to solve constrained and unconstrained continuous and discrete optimization problems.
- Tools to perform data analysis and modeling.

Why LATEX?

LATEX is a document preparation system for high-quality typesetting, which is preferably used for technical/scientific papers writing for journals by researchers, engineers and mathematicians at large. The typesetting system offers programmable writing features and extensive facilities for automating most aspects of typesetting. Some useful features of LATEX are:

- Typesetting of journal articles, technical reports, thesis, books, and slide presentations.
- Simpler to handle large documents containing sectioning, cross-references, tables, mathematical equations, footnotes and figures.
- Typesetting of complex mathematical formulae.
- Advanced typesetting of mathematics with AMS-LATEX.
- Automatic generation of table of contents, bibliographies and indexes.

Why Mathematica?

- In Mathematica, symbolic and numerical computations are seamlessly integrated, enabling unique hybrid methods for many problems and ensuring consistent results whenever quantities of any precision are combined.
- Mathematica applies intelligent automation in every part of the system, from algorithm selection to plot layout and user interface design. You get reliable, high-quality results without needing algorithm expertise and even if you're an expert, you get results faster.

Target audience:

- Academician
- Research Scholars
- Industry persons
- UG & PG students
- Staffs/supporting staffs

Participants are advised to bring laptops for hands-on practice during the sessions.

About REC, Ambedkar Nagar

Rajkiya Engineering College Ambedkar Nagar is AICTE approved Government College established in the year 2010 by U.P. State Government. The college is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow and runs B.Tech. Programs in Civil Engineering, Electrical Engineering and Information Technology. It has beautiful ambience and vibrant academic environment which is highly conducive for teaching-learning activities. It has lush green campus, spread over 17 acres. The college is committed to generating, disseminating, and preserving knowledge. Our engineering programs equip students with academic vigour and intellectual capacity to meet the corporate world challenges.

About Ambedkar Nagar

Ambedkar Nagar is a district in the Ayodhya division of Uttar Pradesh in India. The city is known for its culture, art, literature and food. In past few years, this city is also being known as science and education hub. Ambedkar Nagar is well connected with major cities through trains and bus routes.

Location of REC Ambedkar Nagar

The college is situated 3 Km away from the city (Akbarpur Bus Stand) on Tanda road near hawaipatti. It is well connected through road and rail network. The nearest airport is Babatpur (Varanasi) which is about 100 Km far from the college.



Address:

Rajkiya Engineering College Ambedkar Nagar
Akbarpur – Tanda Road, In Front of Hawaii Patti
Katariya Yakoobpur, Ambedkar Nagar (UP)-224122.