TIME & VENUE

Date: 26th - 29th October 2022
Time: 8:30 AM to 5:00 PM
Venue: Simulation Lab,
Department of Chemical
Engineering, RGUKT Basar

REGISTRATION

Registration Link: bit.ly/matlab_workshop

Registration fee: **Rs 100/-**

A/C No: 20447319543(Katla Ajay)
IFSC code: SBIN0014154
Gpay/Phonepe: 8688892418

Note: Registration fee once paid will not be refunded in any case.

Selection Criteria: Registration is limited to 100 participants only, on first come first serve basis.

(Certificates will be provided to the participants who have having logged attendance of 85% and above.)

IMPORTANT DATES

Last date of registration: 18th October 2022
Workshop Dates: 26th - 29th October 2022

CHIEF PATRON

Prof. V. Venkata Ramana
Vice Chancellor- RGUKT

PATRON

Prof.P. Sathish Kumar
Director- RGUKT

CONVENOR

Mr. Ravi Kumar Goud
HoD, ChE

CO-CONVENOR

Mr.V. Ajay Kumar
Asst. Prof, MME

RESOURCE PERSONS

Dr. R. Ajay Kumar
Assistant Professor
Department of MME

Mr.G.V.V.S.K. Naganjaneyulu
Assistant Professor
Department of ECE

Mr. P. Haribabu
Assistant Professor
Department of ChE

Mr. B. Ramaraju
Assistant Professor
Department of ChE

Mr. K. Srikanth
Assistant Professor
Department of ChE

Mr. Rama Krishna Reddy
Assistant Professor
Department of Physics

Mr. Kumar Ragula
Assistant Professor
Department of Mathematics

ORGANIZING TEAM

- P. Adarsh
- Shaziya
- K. Manikanta
- Manju Chowdary
- K. Ajay
- S. Akhila
- K. Soujanya
- MD. Sohail Ashraf
- k. Srinivas
- Ch. Pranavi
- P. Gayatri

Department of Chemical Engineering and Metallurgical& Materials Engineering

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RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, BASAR

A Four Day Workshop on

MATLAB

October 26th- 29th, 2022

8:30AM to 5:00PM

Register here

Organized by

DEPARTMENT
of
CHEMICAL ENGINEERING
and
METALLURGICAL & MATERIALS ENGINEERING

ABOUT THE INSTITUTION

RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES (RGUKT) has been established by the Government of erstwhile combined Andhra Pradesh in 2008, and the Basar has been taken over by the Government of Telangana, after due amendment of the Rajiv Gandhi University for Knowledge Technologies Act, 2008.

ABOUT CHEMICAL ENGINEERING

The department of Chemical Engineering was established in the year 2008 to offer an undergraduate(UG) program aiming to be a global center of academic and research excellence in Chemical Engineering. The Department has a strong fundamental curriculum integrated by electives in the main emerging areas and industry-ready courses.

ABOUT METALLURGICAL AND MATERIALS ENGINEERING

The Department of Metallurgical and Materials Engineering has been developing progressively with respect to academics and infrastructure which is provided with the sophisticated equipment like X- ray Diffraction, Field Emission Scanning Electron Microscope and Friction Stir Welding (XRD, Fe- SEM and FSW) which are used effectively for various projects.

ABOUT MATLAB

MATLAB is a programming platform designed specifically for engineers and scientists to analyze and design systems and products that transform our world. The heart of MATLAB is a matrix-based language allowing the most natural expression of computational mathematics.

OBJECTIVES

The workshop covers both fundamentals and branch specific concepts with hands on sessions. This would immensely help the students at large.

- To improve employability skills of Engineering students
- To bridge the skill gaps and make students Industry Ready
- To provide an opportunity to students to develop inter-disciplinary skills
- To create awareness of MATLAB in Engineering Applications

PRE-REQUISITES

This workshop content consists of an equal proportion of lecture and hands-on-session. It is recommended to have own LAPTOP during the training sessions, else desktops would be provided in case if required.

CONTENTS OF THE WORKSHOP

- Introduction to MATLAB
- scripts, functions, & plots(2D & 3D)
- Math functions(Linear Algebra, Numerical Integration)
- Image processing(Fourier Analysis and Filtering)
- MATLAB applications in Chemical Engineering
- MATLAB applications in Metallurgy

LEARNING OUTCOMES

- Able to use MATLAB as a simulation tool
- Able to implement loops, branching, control instruction and functions in MATLAB.
- Able to understand program curve fitting, numerical differentiation and integration, solution of linear equations.
- Able to understand solving of ODE and execute solutions of nonlinear equations and DFT in MATLAB.
- Able to work as a MATLAB programmer in the industry because of the hands on practical sessions . This course will help students to get jobs in future.