

## Advisory Committee

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## Members

**Dr. Neeti Ghiya**, Associate Professor

**Dr. Prakash R.**, Assistant Professor

**Dr. Harish M.**, Assistant Professor

## Intended Participants:

This Faculty Development Program (FDP) is intended for beginners, having less prior programming experience or knowledge of MATLAB. It aims to develop MATLAB competency in a natural way with an emphasis on hands-on examples of Engineering Mathematics.

Targeted participants are faculty members of Mathematics department from Engineering colleges and faculty from other programs who would like to learn basics of MATLAB.

## Resource persons:

Faculty members, Department of Mathematics, RV College of Engineering  
**Dr. Viju Ravichandran**, Senior Team Lead-  
Education Technical Evangelist, **MathWorks India**

Registration Fee: ₹472/- (inclusive of GST)

Online registration and payment link:

<https://rzp.io/l/UrrbFC9>

Limited to 30 participants on first-come-first basis.

**The last date for registration is 19-08-2020**

## Training Highlights:

- Online Hands-on based learning.
- Soft copy of Training PPTs will be shared to registered participants after completion of the session.
- Participants attending all the sessions and completing Quiz and Assignment will become eligible for e-certificate.



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And NBA, New Delhi

Online

5-days Faculty Development Program

On

“MATLAB FOR ENGINEERING  
MATHEMATICS”

24<sup>th</sup> to 28<sup>th</sup> August, 2020



Organized by

Department of Mathematics

RV College of Engineering

Bengaluru - 560059

## About the program

The development of Mathematics is closely linked with the progress of civilization, influencing the course of history through its application to science and technology.

Though mathematical knowledge is ancient, stretching back to ages, the evolution of mathematics to its current modern state has seen fundamental changes in concepts, organization, scope, outlook and practice. Mathematics has been reworked in the post-modern approach and there is much ahead that is exciting to appreciate modern mathematics in its contemporary, highly specialized state.

The purpose of knowledge dissemination and establishing connection from prehistoric to modern mathematics would be lost if one is unable to appreciate and connect the outcome of learning mathematical methods and relate them to day-to-day applications. The advent of computers has invaded the approach of understanding and applying mathematical concepts in analysing data and visualization of outcomes.

It's therefore imperative for a learner of mathematics to equip with knowledge of mathematical software in establishing connection between mind and machine. Connect the dots....methods to algorithms...algorithms to softwares...visualize...get better outcomes. Hence the purpose of learning the mathematical softwares.

*MATLAB is one such mathematical software.*

MATLAB, a software package for high performance numerical computation and visualization provides an interactive environment with hundreds of built-in functions for technical computation, graphics and animation. Specific applications are executed using tool boxes, which are a collection of routines that are designed to perform common things.

## RV College of Engineering

RV College of Engineering® (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not for profit Trust. RVCE is an Autonomous college. Currently, the institution offers 12 Bachelor, 15 Master Programs and all the departments have Research Centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The institution, has set itself a Vision "Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology". Recent awards and achievements includes -Ranked 70th in the Country by National Institutional Ranking Framework (NIRF)-2019-20, "Engineering College of the Year-2019" by the Higher Education Review Magazine, Ranked 7th among the top 10 of 100 Pvt. Engg. Colleges in the Country by Education World Magazine. The institution is accredited by NAAC. Eleven UG programs and eligible M.Tech & MCA programs have been accredited by NBA multiple times. The institution has to its credit over 1400 National and International Journal publications, filed over 40 patents, 39 published patents, one patent granted, completed sponsored research and consultancy projects worth Rs. 30.0 crores in the last three years. Established Centres of Excellence in Macroelectronics, Internet of Things, Smart Antenna Systems, Computational Genomics and e-Mobility. The College currently has student strength more than 5500, faculty strength of above 360, technical & administrative Staff of about 225 and around 200 Research Scholars are pursuing Ph.D.

### Department of Mathematics

The Department of Mathematics was established in the year 1963. Beginning with a modest strength of three faculty members in its first year of inception the DoM has grown in strength and now boasts of having twenty (20) faculty members of which fourteen (14) are with

Ph. D. degree and six (6) are pursuing their Ph. D degree. The DoM is involved with teaching activities for UG / PG / global electives and is recognized as research centre for pursuing Ph.D in Mathematics under VTU, the affiliating University. Under this research centre, faculty members are undertaking funded research projects and consultancy work, publishing research papers in referred/peer reviewed journals, organizing workshops and conferences.

### Instructions to participants

- Enter your Gmail ID in the registration form, it will be used for all correspondence related to FDP.
- Whatsapp group of participants will be created to facilitate information communication about the FDP.
- FDP will be conducted using **CISCO WEBEX**.
- Attending the FDP on all 5 days, all sessions and completion of Quiz and assignments in given time are mandatory for e-Certificate.
- Quiz and Assignment will be conducted based on the content covered in the session. Participants scoring at least 60% will be eligible for e-certificate.
- A link for submitting the Feedback will be shared with eligible participants after completion each session of FDP for e-certification.
- Due to limited seats in web-session, only pre-registered participants will be able to attend.
- Instructions for downloading and installing the trial version of MATLAB setup will be given two days prior to the session.
- Since FDP is with hands-on sessions you have to connect through Desktop/Laptop with good network connectivity.
- Please join 10 minutes before the session, mute your audio, video and stop sharing your screen.
- For any queries during the session, post in Chat Window which will be answered during the hand-on sessions.

**DEPARTMENT OF MATHEMATICS**  
**“MATLAB FOR ENGINEERING MATHEMATICS”**  
**PROGRAM SCHEDULE**

	<b>Dr. K. N. Subramanya</b> Principal, RVCE, Bengaluru	24.08.2020 Monday 10.00 – 10.15	Addressing the Participants
	<b>Dr. K. Sridevi</b> Professor and Head Department of Mathematics (DoM), RVCE	24.08.2020 Monday 10.15 – 10.30	Use of Mathematical software in Mathematics teaching
	<b>Dr. Viju Ravichandran,</b> Senior Team Lead- Education Technical Evangelist, MathWorks India	24.08.2020 Monday 10.30 – 11.15	MATLAB and Simulink for Mathematics: Teaching, Learning and Engineering Applications
	<b>Dr. G. Jayalatha</b> Associate Professor, DoM, RVCE	24.08.2020 Monday 11.30 – 1.00	Fundamentals of MATLAB
	<b>Dr. Neeti Ghiya</b> Associate Professor, DoM, RVCE	25.08.2020 Tuesday 10.00 – 1.00	2D and 3D plotting
	<b>Dr. Prakash R.</b> Assistant Professor, DoM, RVCE	26.08.2020 Wednesday 10.00 – 1.00	Calculus Differential equations Numerical Techniques
	<b>Dr. K. Sridevi &amp; Dr. G. Jayalatha</b> DoM, RVCE	27. 08.2020 Thursday 10.00 – 1.00	Descriptive Statistics Curve fitting Correlation & Regression
	<b>Dr. Harish M.</b> Assistant Professor, DoM, RVCE	28.08.2020 Friday 10.00 – 1.00	Linear Algebra Integral Transforms