



**MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING**

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# **TECHNICAL STAFF DEVELOPMENT PROGRAM ON**

## **MATLAB & SIMULINK CAMPUS-WIDE SUITE**

**Organised by**

**Internal Quality Assurance Cell (IQAC)**

**MITE**

**In Association with**



**21/12/2022**

**Siemens Lab II**

# Technical Staff Development Program

## on

# MATLAB & SIMULINK CAMPUS-WIDE SUITE

**Title:** Technical Staff Development Program on MATLAB & Simulink Campus-Wide Suite

**Date:** 21/12/2022

### About the Workshop:

The technical staff development program on **MATLAB & Simulink Campus-Wide Suite** was organised by **Internal Quality Assurance Cell (IQAC)**, MITE in association with Mathworks and CoreEL Technologies Pvt. Ltd. to foster the growth of Engineering and Scientific skills of the technical staff members.

**MathWorks** is the developer of mathematical computing software for Engineers and Scientists. MathWorks is leading worldwide supplier of technical computing software. The business activities are characterized by quality, innovation, timelines, competitive awareness, ethical business practices and outstanding service to the customers. MathWorks actively support local and professional communities through initiatives that advance STEM education, foster staff volunteerism, build environmental sustainability, and aid global relief efforts.

**CoreEL** Technologies is driven by innovation and a multi-disciplinary approach towards technology. CoreEL offer innovative solutions ranging from Intellectual Property (IP) cores, Design and Development, System Design and Prototype Development, Next-Gen Digital products, Integrated solutions, Low Volume Manufacturing, System Upgrades, Obsolescence management, EDA tools, COTS products, Semiconductor solutions, and Technology Training.

### Technical Staff Development Program Outcome:

Participants will be familiar with the MATLAB Onboarding Program, Campus-wide License features, Installation & Portal Demo and Development Panning.

**The resource person for Technical Staff Development Program on MATLAB & Simulink campus-wide suite:**

**Ms Niveitha Mohankumar**

Education Customer Success Team at MathWorks, Bengaluru

**Mr Deep Gogoi**

Installation & Licensing Support

Mathworks Products, Bengaluru

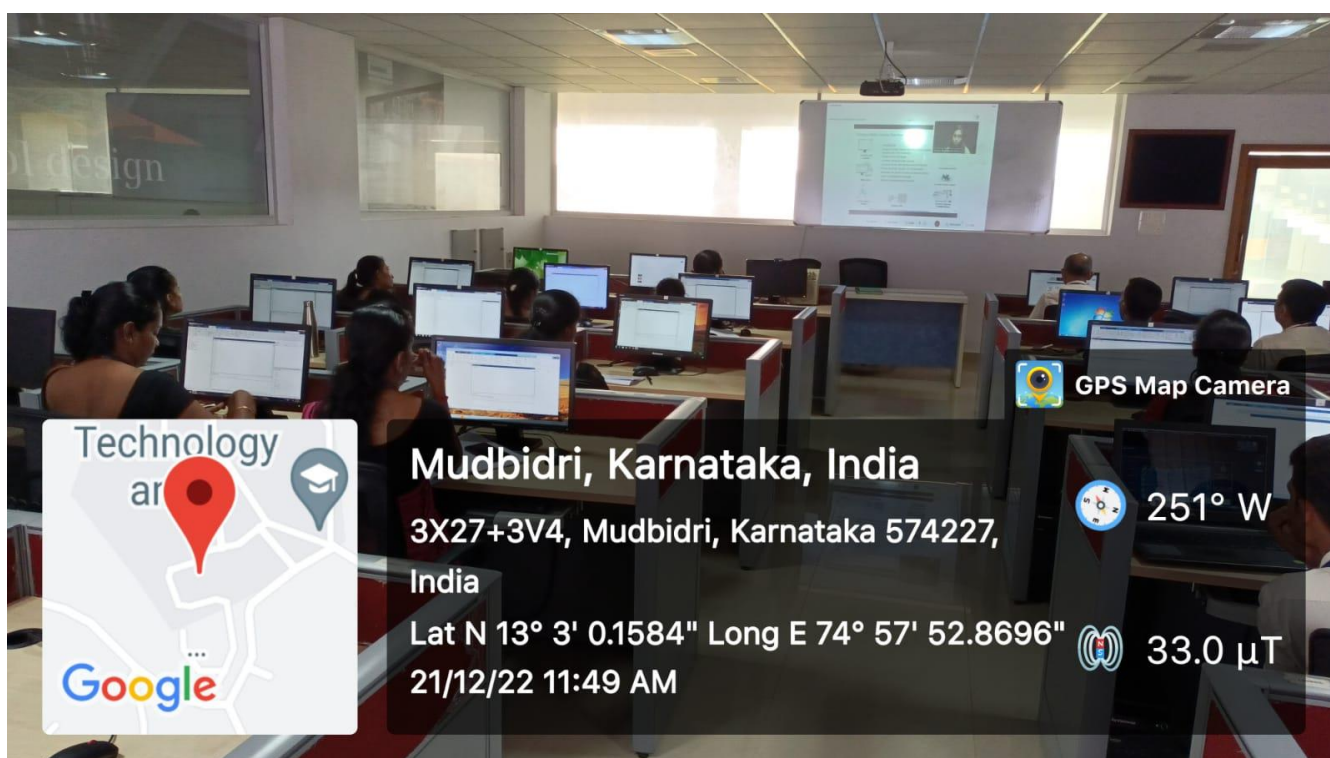
**SESSION-1**

**Resource Person: Ms Niveitha Mohankumar & Mr Deep Gogoi**

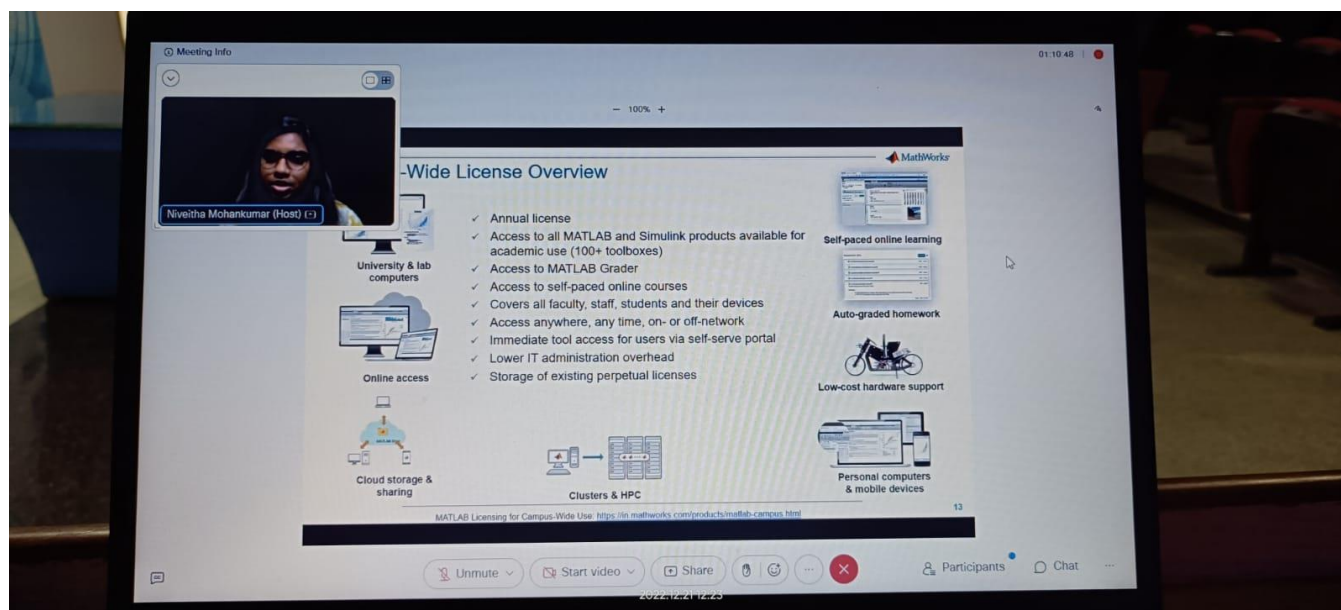
The technical staff development program began with an introductory talk on MATLAB by Ms Niveitha Mohankumar, Customer Success Specialist, Mathworks. She had an online interaction with participants wherein she gave an introduction about Mathworks and its products. She highlighted the importance of MATLAB in Engineering applications. Then she also briefed about the MATLAB Portal and gave a demo on the same. She highlighted that there are 100+ features in MATLAB and Simulink. She gave more emphasis on self-paced online courses which one can avail free of cost. She added that, there are Onramp courses for beginners and also focused courses for advanced learners. She also briefed about the MATLAB Grader feature which would help in assessment of students.

Later Mr Deep Gogoi, Installation and licensing support team, Mathworks, continued with the session. He had an online interaction with participants wherein he gave an introduction to installation & licensing of MATLAB and its products. He highlighted the importance of portal link for MATLAB. Then he also briefed about the sign in and login process of MATLAB Portal. He also explained about how to use institutional email id to login to the portal. He highlighted that MATLAB license is backward compatible; MATLAB can be installed in Windows, Mac and Linux. He added that MATLAB can be installed on more than one computer; can be accessed within and outside the campus. Discussion on setting the default MATLAB path during MATLAB installation and installing the required toolbox to minimize space was carried out. The questions raised by the resource person regarding the hardware specifications; about common login or PC-specific login, were answered by the participants.

During the interaction with the resource person, discussion on processing of offline data using MATLAB in the cloud with internet access; availability of domain-based installation was held. The resource person then highlighted that MATLAB online feature can be used to process the data online. He also insisted that there is no domain-based license available in MATLAB. He mentioned the availability of additional MATLAB resources available apart from the toolboxes. He added by saying these resources can be accessed by individual end users through the Head of the Department or Faculty assigned for the particular project. He later explained about MATLAB parallel server for distributed computing jobs and the presence of MATLAB WebApp server which can be used to develop Web Apps. He spoke about the PolySpace server which can be used to debug and pull-down errors. The resource person mentioned about the new releases A & B would be accessible through the Campus-wide license and portal link which helps end users to know about different products and toolboxes available. The question raised by the participant regarding inclusion of Network license in the Campus Wide license was answered by the resource person that the Network license does not come under Campus Wide license.



Ms Niveitha Mohankumar explaining about the MATLAB Portal and Online Courses.



Ms Niveitha Mohankumar explained the Campuswide license and its usage.

## **SESSION-2:**

### **Resource Person: Mr Deep Gogoi**

In the afternoon session, Mr Gogoi briefed about the help option available in the portal link. He also mentioned about the availability of videos and help document. Next, he explained about MATLAB online and told that internet access is required to use this feature. He mentioned that models and systems can be accessed anywhere through the internet by means of stored files. He then spoke about MATLAB Mobile which can be installed in Android and iOS device. IT Admin then raised doubt on version support to Linux version of MATLAB. The workshop coordinator raised a query as to whether online certification courses can be accessed via offline or online mode with an institutional id. The resource person answered mentioning about managing users without institutional id but want access to MATLAB. Those users are to be added manually using add users. IT admin raised doubt regarding adding multiple users at a time. The resource person explained by saying that there is a batch add option available for this. The question raised by IT admin whether the reverification of users requires email id, was addressed by resource person that verification of user's email id has to be done every time the campus license expires and every time it is renewed. Later he explained about pop-up notification every time the campus license expires. After reactivation and renewal, the pop notification does not appear. The resource person concluded the day's session by saying that the certification courses will be renewed every year and that can be accessed online via MATLAB online for end users.

Total of 20 technical staff members participated in the program.





Resource Person Mr Deep Gogoi explained the usage of MATLAB Mobile to participants



Resource person interacting with the participants on MATLAB WebApp server