

*Two week online Faculty Development Program on*

# “MATLAB Programming”

**August 22-September 02, 2022**

**Tentative Schedule**

Session	Title	Date	Time
0.	Inaugural ceremony	22/8/2022	3:00pm to 3:30pm
1.	Programming skill required for being an effective teacher with Applications of MATLAB	22/8/2022	3:30pm to 5:30pm
2.	MATLAB User Interface, Basic Operations, Data Format, Handling Variables	22/8/2022	6:00pm to 8:00pm
3.	Formulating Expressions and Matrices, Exercises on basic operations	23/8/2022	3:30pm to 5:30pm
4.	Programming Basics for decision making, Conditional/logical Statement	23/8/2022	6:00pm to 8:00pm
5.	Using MATLAB as smart Calculator	24/8/2022	3:30pm to 5:30pm
6.	Programming for Execution Control, Loops	24/8/2022	6:00pm to 8:00pm
7.	2D Plotting Visualization Using MATLAB	25/8/2022	3:30pm to 5:30pm
8.	Presenting research results using MATLAB	25/8/2022	6:00pm to 8:00pm
9.	Programming for Execution Control, Loops	26/8/2022	3:30pm to 5:30pm
10.	Debugging and Troubleshooting programs, Development Tools and Programming Techniques	26/8/2022	6:00pm to 8:00pm
11.	Writing Functions, Handling data in MS Excel and text file, Debugging a program	29/8/2022	3:30pm to 5:30pm
12.	3D Plots, Modifying plots using property editor, Automating Plots using Functions	29/8/2022	6:00pm to 8:00pm
13.	Polynomials, Curve Fitting and Interpolation, Ordinary differential equations, Solving an Equation with One Variable	30/8/2022	3:30pm to 5:30pm
14.	Algorithm development and Problem formulation	30/8/2022	6:00pm to 8:00pm
15.	GUI Development with MATLAB	31/8/2022	3:30pm to 5:30pm
16.	Solving Mathematical Problems using MATLAB Symbolic Math	31/8/2022	6:00pm to 8:00pm
17.	Building GUI's with input output functions, toggle buttons	01/9/2022	3:30pm to 5:30pm
18.	Modelling and Simulation of Dynamic Systems using MATLAB Simulink	01/9/2022	6:00pm to 8:00pm
19.	Building GUI's with radio button and other windows GUI options	02/9/2022	3:30pm to 5:30pm
20.	App development in MATLAB, Generating Executable Files and Stand-Alone Applications, Case Studies	02/9/2022	6:00pm to 8:00pm
21.	Valedictory	02/9/2022	8:00pm to 8:30pm

**List of Speakers for the Course:**

- [Dr. Pulak Mohan Pandey](#), *Professor, IIT Delhi*
- [Dr. Prashant K. Jain](#), *Professor, IIITDM Jabalpur*
- [Dr. Pavan K. Kankar](#), *Associate Professor, IIT Indore*
- [Dr. Amit Singh](#), *Assistant Professor, MNIT Jaipur*
- [Dr. Mohammad Taufik](#), *Assistant Professor, MANIT Bhopal*
- [Dr. Narendra Kumar](#), *Assistant Professor, NIT Jalandhar*