



# POORNIMA

## COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

### A Report on “Expert Lecture”

**Name of Activity:** Benefits of MATLAB and how it is beneficial in Simulations

**Date and Duration:** 8<sup>th</sup> Aug 2022 and 11:30 AM to 01:30 PM

**Type of Activity:** Expert Lecture

**Organized By:** Department of Electronics & Communication Engineering, Jaipur.

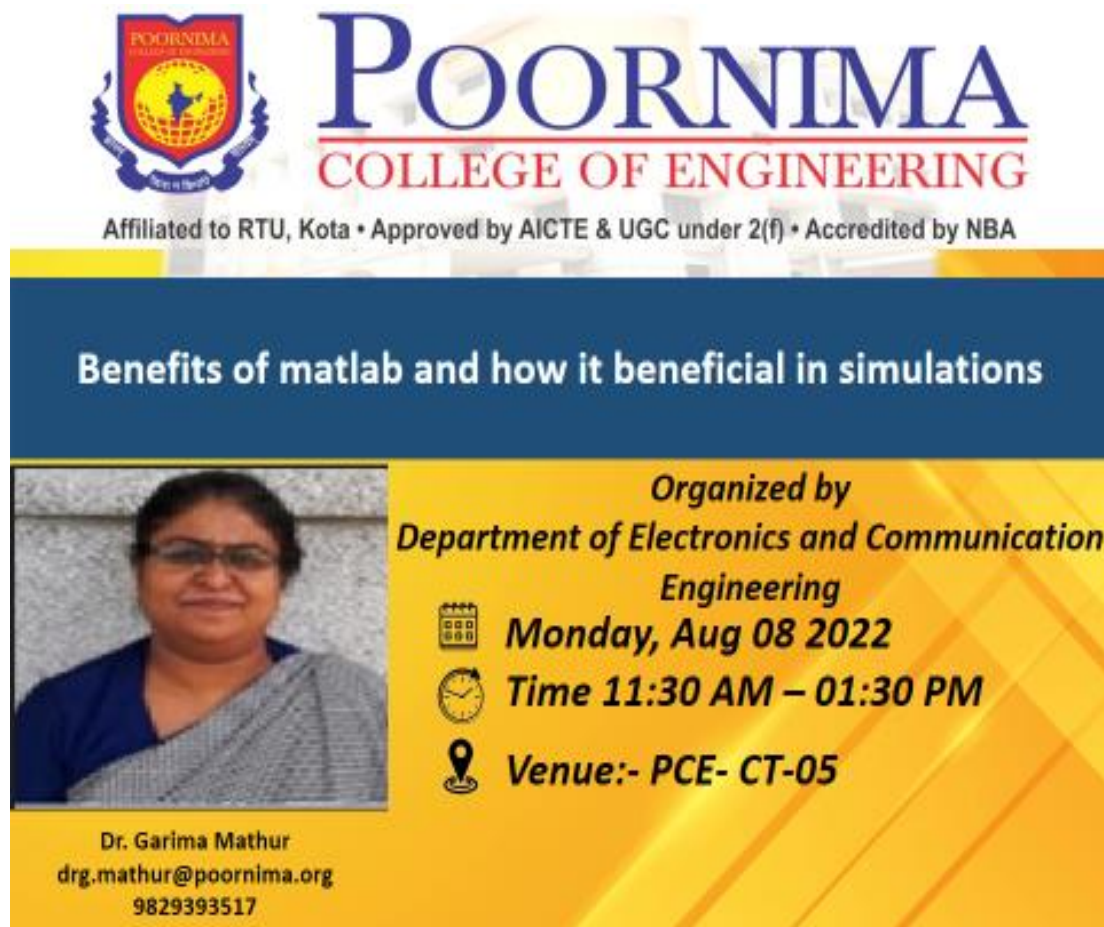
### EXPECTED OUTCOMES: CO

CO-1	To gain knowledge about MATLAB Simulink and identifying the related area of knowledge.
CO-2	Reviewing literature to understand how others have approached or dealt with the problem.
CO-3	To understand the concept and importance of MATLAB in the field of Electronics Engineering.
CO-4	To provide students an understanding of the expectations of industry.

### CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	-	-	-	-	-	3	-	-	-	-	-	-	3	2	2
CO2	-	-	-	-	-	-	-	-	3	-	-	-	-	3	2
CO3	-	-	-	-	-	-	-	-	-	-	-	3	2	2	3
CO4	-	-	-	-	-	-	-	-	-	3	-	3	-	2	3

## FLYER / POSTER:



The flyer features the Poornima College of Engineering logo on the left, which includes a shield with a globe and the college name. To the right, the college name 'POORNIMA COLLEGE OF ENGINEERING' is written in large blue and red letters. Below this, it states 'Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA'. The main title of the session is 'Benefits of matlab and how it beneficial in simulations' in white text on a dark blue background. A portrait of Dr. Garima Mathur is shown on the left side of the flyer. To her right, the text reads 'Organized by Department of Electronics and Communication Engineering'. Below this, three icons (calendar, clock, and location pin) precede the details: 'Monday, Aug 08 2022', 'Time 11:30 AM – 01:30 PM', and 'Venue:- PCE- CT-05'. At the bottom left, Dr. Garima Mathur's contact information is provided: 'Dr. Garima Mathur', 'drg.mathur@poornima.org', and '9829393517'.

## RESOURCE PERSON:

**Dr. Garima Mathur**, HOD, Department of Electronics and Communication Engineering, Poornima College of Engineering, Jaipur Raj.

## ABOUT OF THE SESSION:

The main objective of this session to improve employability skills of engineering students. MATLAB or (Matrix Laboratory) is a high performance fourth generation programming language which is used for technical computing. MATLAB is designed for ease of use and behaves as a high-level programming language that is tailored for signal processing, communication, and control tasks. It is used by professionals in industry and academia worldwide in research, development, and design. An open source program having very similar capabilities and commands is also available called Octave. MATLAB, short for

MATRIX Laboratory, works on matrices of numbers. In this session we focus mostly on one-dimensional matrices called vectors that contain signal samples, or on multiple-dimensional matrices containing several signals or the parameters of a system. For example, a vector could contain just a list of values from a mathematical function that you wish to plot. Initially familiarize students with the matrix notation in MATLAB, and then used this to working with vectors and matrices in arithmetic operations. This introduction has three parts: reading, reading while doing, and doing guided by knowing expected results. This session allowed the students to learn MATLAB in an interactive way, at their own pace, and through hands-on experience. Since the main difficulties in learning MATLAB are in learning the syntax and (in some cases) learning to program, this session will very helpful to solve this problems. Use the on-line help, and references for additional information. Students should follow this text with MATLAB running, and work through the examples and questions. MATLAB is available on many other platforms. MATLAB runs under Microsoft Windows, Linux X Windows, or MacOS. All versions of MATLAB are compatible in file storage format and M-file format, so data stored on one system can be transferred to another without loss. Each MATLAB session has at least two windows: a text window, where commands are typed and data is displayed, and a graphics window, where graphics appear. Octave has a virtually identical user interface to MATLAB. If you plan to do work at home on labs and assignments and do not have a license of MATLAB, it is recommended that you repeat some or all of the activities below using Octave on your home computer.

## GLIMPSE:



Group Photograph of Session

## LIST OF PARTICIPANTS:

S. No.	Name	Registration No.	Year	Branch
1.	ABHAY KHANDELWAL	PCE21EC001	2nd	EC
2.	ABHISHEK SINGH RAJAWAT	PCE21EC002	2nd	EC
3.	AVINASH KUMAR	PCE21EC003	2nd	EC
4.	MSBHAWANA SAHANI	PCE21EC004	2nd	EC
5.	DEVVRATH SINGH	PCE21EC005	2nd	EC
6.	HARSH KUMAR	PCE21EC006	2nd	EC
7.	KAMLESH KUMAWAT	PCE21EC007	2nd	EC
8.	KARTIK SHARMA	PCE21EC008	2nd	EC
9.	LOKESH KUMAR DHAKER	PCE21EC009	2nd	EC
10.	LOKESH KUMAWAT	PCE21EC010	2nd	EC
11.	MOHD DAUD QURESHI	PCE21EC011	2nd	EC
12.	PRIYANSH BAIRWA	PCE21EC012	2nd	EC
13.	PRIYANSHU SONI	PCE21EC013	2nd	EC
14.	RAJEEV KUMAR BAG	PCE21EC014	2nd	EC
15.	RAJENDRA SOLANKI	PCE21EC015	2nd	EC
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17.	SAHIL ARORA	PCE21EC017	2nd	EC
18.	MS TAMNNA AMERI	PCE21EC020	2nd	EC
19.	YASH VARDHAN SINGH	PCE21EC022	2nd	EC

	SOLANKI			
20.	MD ARIF ALAM	PCE21EC023	2nd	EC
21.	RAGINI KUMARI	PCE21EC024	2nd	EC
22.	KASHMI CHOUDHARY	PCE21EC510	2nd	EC
23.	ANSHUL KUMAR JAIN	PCE20EC001	3rd	EC
24.	ANUSHKA PATEL	PCE20EC002	3rd	EC
25.	ASHISH KUMAR	PCE20EC003	3rd	EC
26.	BHANU SHARMA	PCE20EC004	3rd	EC
27.	MEENA ASHWINI SEETARAM	PCE20EC005	3rd	EC
28.	MS TRIPTI JAIN	PCE20EC006	3rd	EC
29.	NIKHIL CHOUHAN	PCE20EC008	3rd	EC
30.	TARUN VERMA	PCE20EC010	3rd	EC
31.	PARIHAR HITESH RAMESH	PCE20EC011	3rd	EC
32.	NISHANT SINGH	PCE20EC702	3rd	EC
33.	APARNA S KUMAR	PCE21EC800	3rd	EC
34.	ADARSH KUMAR	PCE19EC001	4th	EC
35.	ADITYA SHARMA	PCE19EC002	4th	EC
36.	AHMED NOOR	PCE19EC003	4th	EC
37.	AKASH KUMAR	PCE19EC004	4th	EC
38.	AKASH SINGH JADAUN	PCE19EC005	4th	EC
39.	AMAN MUDGAL	PCE19EC006	4th	EC
40.	AMISHA MATHUR	PCE19EC007	4th	EC
41.	ANMOL KUMAR	PCE19EC008	4th	EC
42.	APEKSHA ABHAY	PCE19EC009	4th	EC
43.	ARYAN PATIDAR	PCE19EC010	4th	EC
44.	ASHIKA CHATURVEDI	PCE19EC011	4th	EC
45.	ASHISH RAJ	PCE19EC012	4th	EC
46.	AVINASH KUMAR	PCE19EC013	4th	EC
47.	BHANSALI KARAN SURESH	PCE19EC014	4th	EC
48.	BHARAT KUMAWAT	PCE19EC015	4th	EC
49.	BHAVIT JAIN	PCE19EC016	4th	EC
50.	BRAJESHWARAM KRISHNAM	PCE19EC017	4th	EC
51.	CHANCHAL BICHHORIYA	PCE19EC018	4th	EC
52.	CHANDAN SINGH	PCE19EC019	4th	EC
53.	CHIRAG AGARWAL	PCE19EC020	4th	EC
54.	CHIRAG JAISWAL	PCE19EC021	4th	EC
55.	DIVYANSH MATHUR	PCE19EC022	4th	EC

56.	GAURAV KUMAR	PCE19EC023	4th	EC
57.	GAUTAM JESWANI	PCE19EC024	4th	EC
58.	JHALAK DASHORA	PCE19EC026	4th	EC
59.	JITESH CHETANI	PCE19EC027	4th	EC
60.	KANAK MADAN	PCE19EC029	4th	EC
61.	KANISHKA AGARWAL	PCE19EC030	4th	EC
62.	KISHAN BARANWAL	PCE19EC031	4th	EC
63.	KRATIN GURJAR	PCE19EC032	4th	EC
64.	KUNAL SONI	PCE19EC033	4th	EC
65.	LALIT AGARWAL	PCE19EC034	4th	EC
66.	MANISH KUMAR VAISHNAV	PCE19EC035	4th	EC
67.	MANISHA	PCE19EC036	4th	EC
68.	MIHIR BHATIA	PCE19EC037	4th	EC
69.	AKSHITA MITTAL	PCE19EC038	4th	EC
70.	SANA	PCE19EC039	4th	EC
71.	MS PRACHI SHARMA	PCE19EC040	4th	EC
72.	NAMAN TIWARI	PCE19EC041	4th	EC
73.	NEHA MRIDUL	PCE19EC042	4th	EC
74.	NEMICHAND CHHIPA	PCE19EC043	4th	EC
75.	NISHANT VYAS	PCE19EC044	4th	EC
76.	NITIN JAIN	PCE19EC045	4th	EC
77.	NITISH KUMAR	PCE19EC046	4th	EC
78.	PRABHAT SHARMA	PCE19EC047	4th	EC
79.	PRAGYA SHARMA	PCE19EC048	4th	EC
80.	PRATHAM MATHUR	PCE19EC049	4th	EC
81.	RAHIL MATHUR	PCE19EC050	4th	EC
82.	RAHUL	PCE19EC051	4th	EC
83.	RAHUL SHARMA	PCE19EC052	4th	EC
84.	RAMAN KUMAR	PCE19EC053	4th	EC
85.	RISHAV ANAND	PCE19EC054	4th	EC
86.	ROHIT RAJ	PCE19EC055	4th	EC
87.	ROHIT SAINI	PCE19EC056	4th	EC
88.	SAKSHI JAIN	PCE19EC057	4th	EC
89.	SAKSHAM JAIN	PCE19EC058	4th	EC
90.	SAMIKSHA AGARWAL	PCE19EC059	4th	EC
91.	SANKALP MISHRA	PCE19EC060	4th	EC
92.	SANSKRITI	PCE19EC061	4th	EC
93.	SHARAD PILLAI	PCE19EC062	4th	EC

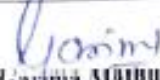
94.	SHIVENDRA SINGH RATHORE	PCE19EC063	4th	EC
95.	SHREYANSH PATNI	PCE19EC064	4th	EC
96.	SHRUTI SHARMA	PCE19EC065	4th	EC
97.	SNEHA SONI	PCE19EC066	4th	EC
98.	SURYABHAN RAY	PCE19EC067	4th	EC
99.	TEJAS SAXENA	PCE19EC068	4th	EC
100.	VARTESH RAJ SINGH	PCE19EC069	4th	EC
101.	VIRAJ SINGH BHATI	PCE19EC070	4th	EC
102.	YADAV VINAYSINGH SATPALSINGH	PCE19EC071	4th	EC
103.	YASH SONI	PCE19EC072	4th	EC
104.	YASHASVI PANDEY	PCE19EC073	4th	EC
105.	YASHDEEP SAINI	PCE19EC074	4th	EC
106.	MANIK MANGOTRA	PCE19EC518	4th	EC
107.	SUNIL KUMAR	PCE19EC519	4th	EC

## ATTENDANCE SHEET:-

Poornima College of Engineering			
Department of Electronics and Communication Engineering			
Benefits of MATLAB and how it is Beneficial in Simulations - 8 <sup>th</sup> Aug, 2022			
Attendance Sheet			
S. No.	Name	Registration No.	Attendance
1.	ABHAY KHANDEI WAL	PCE21EC001	P
2.	ABHISHEK SINGH RAJAWAT	PCE21EC002	P
3.	AVINASH KUMAR	PCE21EC003	P
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22.	KASHMI CHOUDHARY	PCE21EC510	P
23.	ANSHUL KUMAR JAIN	PCE20EC001	P
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93.	SHARAD PILLAI	PCE19EC062	P
94.	SHIVENDRA SINGH RATHORE	PCE19EC063	P

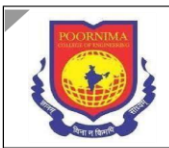
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107.	SUNIL KUMAR	PCE19EC519	P

  
Dr. Garima Mathur  
HOD, EC

## FEEDBACK:

The session was fantastic overall. Openness and appreciation of students' questions and comments made a relatively large class feel like an expert lecture.

## SAMPLE CERTIFICATE:



One-Day Expert Lecture  
On

*Benefits of MATLAB and how it is Beneficial in Simulations*

Organized By

Department of Electronics & Communication Engineering

Poornima College of Engineering, Jaipur

**Certificate**

Ref No.PCE/EC/Expert Lecture/2022-23/22

This is to certify that Dr./Mr./Ms. "KASHMI CHOUDHARY" of "Poornima College of Engineering Jaipur" has participated in Expert Lecture on "Benefits of MATLAB and how it is Beneficial in Simulations" held on 8th Aug 2022 at "Electronics & Communication Engineering, Poornima College of Engineering, Jaipur, Rajasthan".



Dr. Garima Mathur  
(HOD, EC)  
(PCE, Jaipur)



Dr. Mahesh. M. Bundele  
(Director & Principal)  
(PCE, Jaipur)

  
Dr. Mahesh Bundele  
B.E., M.E., Ph.D.  
Director

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Sitapura, JAIPUR