



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

Deemed University

(Declared under Distinct Category by Ministry of Education, Government of India)

NAAC ACCREDITED WITH A++ GRADE



Department of Electronics Engineering

Two Day Online National Workshop on
“Modelling & Simulation using MATLAB Software”
in association with Ark InfoSolution [MathsWork], Madhya Pradesh
on 23rd & 24th January 2025

Department of Electronics, MITS Gwalior conducted Two day national workshop on “Modelling & Simulation using MATLAB Software” in association with Ark InfoSolution [MathsWork], Madhya Pradesh on 23rd & 24th January 2025

Objective of workshop:

The main objective of the workshop was to promote the advances in the field of modeling and simulation. Modelling and Simulation has emerged as a pivotal domain in modern technological advancements, catering to diverse industries ranging from aerospace and automotive engineering to healthcare and finance. This interdisciplinary domain involves the development of mathematical models that replicate real-world systems, followed by simulation techniques to analyze their behaviours and optimize performance. Integrating control strategies within this framework further empowers us to regulate and manipulate these systems precisely. Modelling and Simulation not only accelerates innovation by providing a cost-effective and risk-reduced platform for experimentation but also aids in making informed decisions, driving efficiency, and enhancing safety across various sectors. The main aim of this workshop was to bring faculty members and researches together from different engineering and industrial fields to establish new collaborations and research to expose both sides of challenges and opportunities in the respective fields.

Line of action: Workshop was inaugurated in the presence of Dr. Vandana Vikas Thakre, Professor and HoD of Electronics Department, Dr. R. P. Narwaria (Workshop Coordinator), Prof. D. K. Parsediya (Workshop Coordinator) and faculties of Electronics department. Dr. R. P. Narwaria provided brief information about the workshop. In this workshop, Research Scholar & Faculties from different engineering colleges have participated. Both days one Expert Lecture was scheduled in first half and one Lecture in second half. After that the workshop was completed by vote of thanks gave by Prof. D. K. Parsediya. The schedule of workshop was as follows:



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Workshop Schedule

Date	Time	Activities
23 rd January 2025 Thursday	01:00PM – 02:00PM	Expert Lecture - I
	05:00PM – 06:00PM	Expert Lecture - II
24 th January 2025 Friday	01:00PM – 02:00PM	Expert Lecture - III
	05:00PM – 06:00PM	Expert Lecture - IV

Expert Lecture Details:

Expert Lecture -I : Dr. Kaushal Pratap Sengar, Asst. Professor, C-IoT, MITS-DU

Expert Lecture -III: Dr. Deepak Batham, Asst. Professor, Dept. of Electronics Engg. MITS-DU

Expert Lecture –II & IV : Mr. Anshuman Prakash, Senior Application Engineer,
Ark InfoSolution [MathsWork], Madhya Pradesh

In the first technical session, Dr. Kaushal Pratap Sengar, Asst. Professor, C-IoT, MITS-DU delivered an expert lecture on Basics of MATLAB Coding. The session was very informative and also interactive for the participants. The second and forth expert lecture was delivered by Mr. Anshuman Prakash, Senior Application Engineer, Ark InfoSolution [MathsWork], Madhya Pradesh on Simulink.

In the third technical session, Dr. Deepak Batham, Asst. Professor, Dept. of Electronics Engg. MITS-DU gave information about designing of different kind of controllers using MATLAB.

Participants:

In this workshop, total 102 participants were registered. The details of participant are as follows:

S. No.	Name of Participant	Institute/Organization name
1.	Ritu Raj Kathel	Govt polytechnic college Nowgong district chhatarpur M.P
2.	Akash Garg	Govt polytechnic college Itarsi
3.	Alka Sonkar	Kalaniketan Polytechnic College Jabalpur
4.	Arun Kumar Yadav	ITM University Gwalior
5.	Ashish Bansal	Government Polytechnic College Dewas
6.	Ashish Sharma	Government Polytechnic College Bhind
7.	Ashok Kumar Awasthi	Government Polytechnic College Rewa
8.	Bhavna Dangi	Government Polytechnic College, Sironj
9.	Deepak Bhawsar	Government Polytechnic College Khirsadodh Dist-Chhindwara M.P.
10.	Dhanashree Wani	jijamata govt. Polytechnic collage,burhanpur
11.	Dheeraj Singh	Indira Gandhi Engineering College Sagar MP



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	Rajput	
12.	Dinesh Singh Tomar	ITM University Gwalior
13.	Dr Amzad Quazi	JNCT Professional University Bhopal
14.	Dr Deepak Shah	Jijamata Govt Polytechnic College Burhanpur
15.	Dr Mallika Jain	Kalaniketan Polytechnic College Jabalpur
16.	Dr. Mallika Jain	Kalaniketan Polytechnic College Jabalpur
17.	H N Verma	ITM University, Gwalior
18.	Irfan Khan	Oriental University Indore
19.	Kamal Narayan Budholia	Govt Polytechnic College Sironj
20.	Kishore Tilwani	Jijamata Government Polytechnic College Burhanpur
21.	Mahendrapal Singh Pachlaniya	Government Polytechnic College Sironj
22.	Manish Kumar Varyani	Government Polytechnic College Itarsi
23.	Manish Sharma	Dept. Of Mathematics School of Sciences ITM University
24.	Megha Kasliwal	Ujjain polytechnic college
25.	Neerja Rana	GHS Darkauli Sasni Hathras
26.	Nitesh Kumar Uikey	Government Polytechnic College Sironj
27.	Nitu Suliya	Government Polytechnic College Datia M.P
28.	Pankaj Bamnia	Government Polytechnic College Alirajpur
29.	Poonam Jounjare	JNCT College, Bhopal
30.	Poonam Namdeo	Delhi University
31.	Prof. Amit Sawaskade	JNCT, Bhopal
32.	Rachit Jain	Dept. Of IT, Prestige Institute of Management & Research
33.	Rahul Mittal	Government Polytechnic College Datia
34.	Rajendra Singh Chouhan	Government Polytechnic College Khargone Madhya Pradesh
35.	Ritu Raj Kathel	Govt polytechnic college Nowgong district chhatarpur m.p
36.	Sameer Purohit	Jai Narain College of Technology, Bhopal
37.	Shailesh Gupta	Government Polytechnic College Nowgong District Chhatarpur MP
38.	Shailja Nema	Government Polytechnic College Sironj
39.	Shankar Dayal Sharma	Government Polytechnic College Rewa
40.	Shiv Datt Sharma	Indira Gandhi Engineering College, Sagar
41.	Shyam Kumar Bhumarkar	Jijamata government polytechnic college burhanpur
42.	Siddharth Singh	Government Polytechnic College, Jatara



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43.	Sourabh Kaithwas	Lecturer Electrical Department Government Polytechnic College Balaghat Madhya Pradesh
44.	Sumit Tokhare	Jija Mata Government Polytechnic college Burhanpur Madhya Pradesh
45.	Suraj Pathak	Govt. Polytechnic college nowgong
46.	Varsha Parakh	Jijamata govt polytechnic college Burhanpur

Outcomes of the workshop

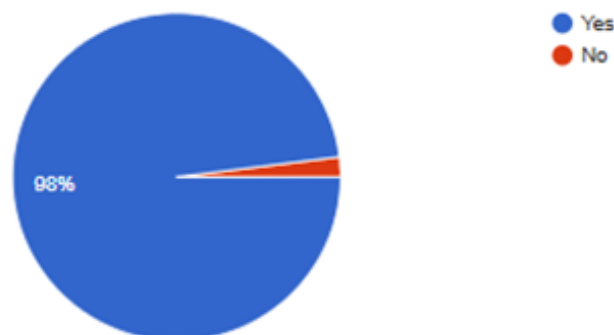
- Participants get familiarity with MATLAB software that is used to solve engineering problems .
- Participants will be able to apply various simulation techniques to analyze system performance, predict outcomes, optimize parameters and gain proficiency in designing and implementing control algorithms to regulate and enhance system behavior, considering stability, responsiveness, and robustness.
- Participants have also acquired knowledge about simulation of controllers.

Feedback Report from Participants

Have you gained some knowledge about MATLAB Software?

 Copy chart

51 responses

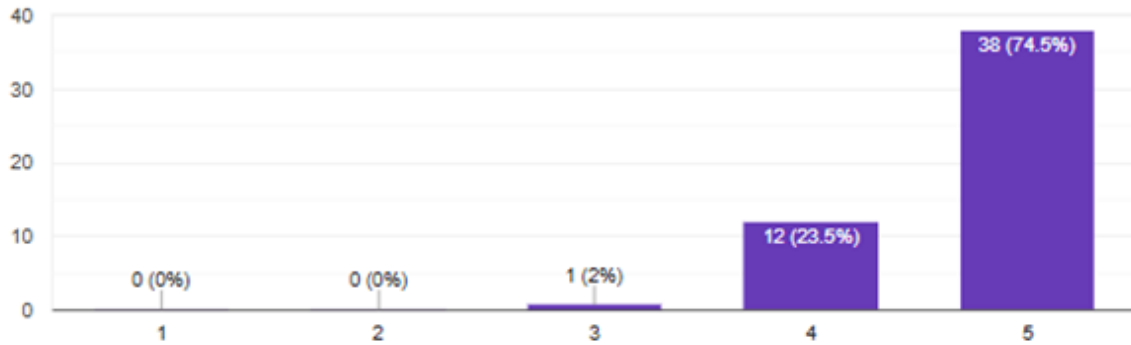




How you rate the quality of this workshop.

[Copy chart](#)

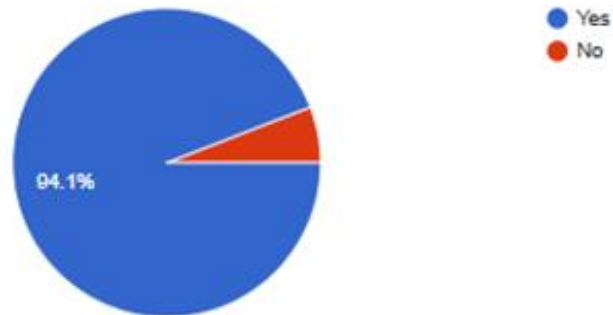
51 responses



Have the experts answered your queries?

[Copy chart](#)

51 responses





Would you like to participate such type of activities in future?

[Copy chart](#)

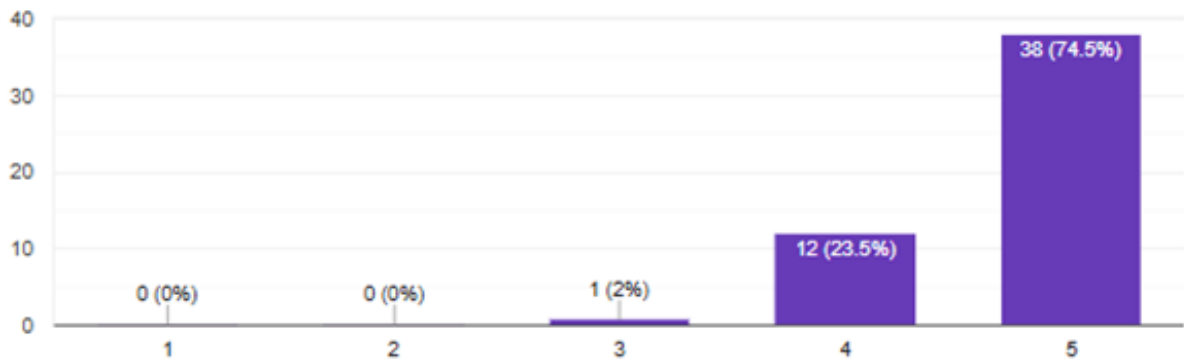
51 responses



Rate the overall quality of this workshop.

[Copy chart](#)

51 responses





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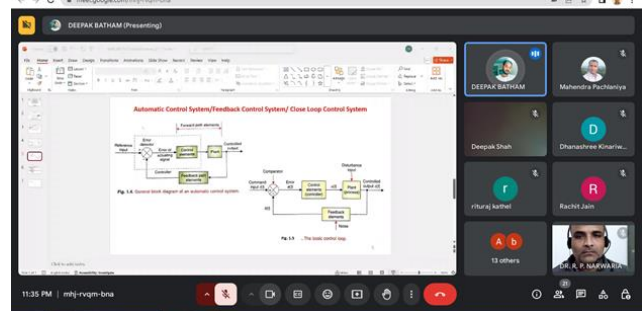
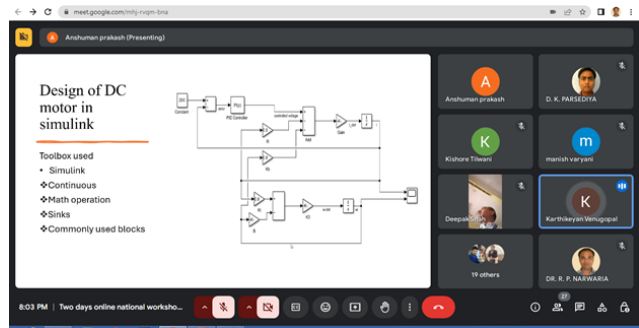
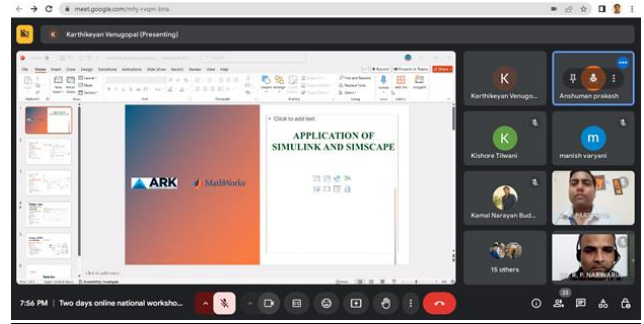
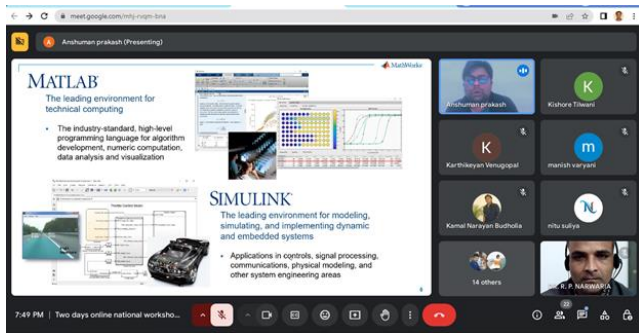
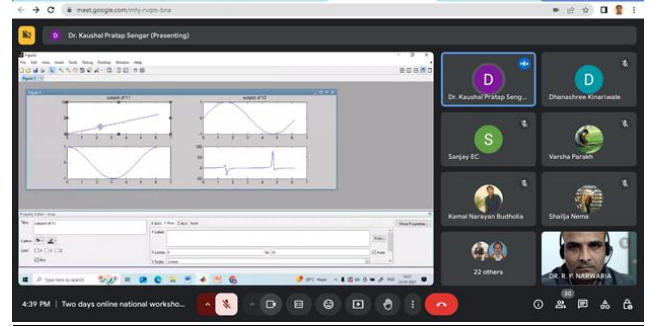
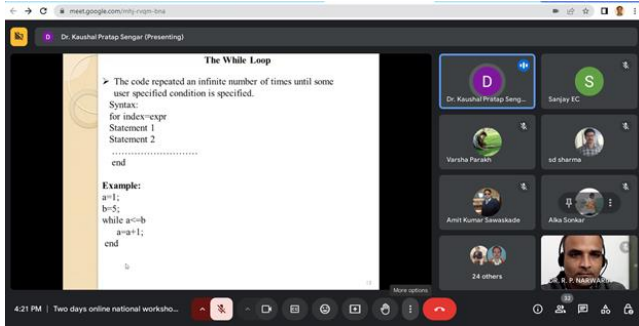
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Glimpses of Workshop:



Dr. R.P.Narwaria
Workshop Coordinator

Prof. D. K. Parsediya
Workshop Coordinator

Dr. Vandana V. Thakare
HOD