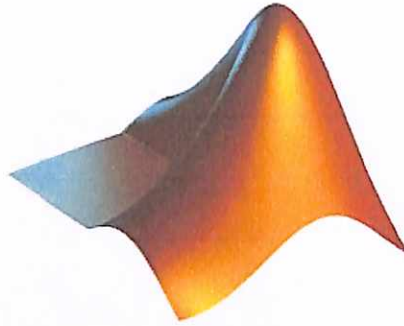


A REPORT ON

Add On Course On

“MATLAB Programming for Numerical Computation ”

21/09/22 TO 13/10/22



Organized By



“ वेदे चतुर्णांवे द्वित ”

Department of Mechatronics Engineering

MarathwadaMitra Mandal's Institute of Technology, Lohgaon,

Pune

Approved by AICTE New Delhi, Recognized by DTE Maharashtra & Affiliated to SavitribaiPhule Pune,  
NAAC “A” Accredited Institute

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## Patron

Dr. R. V. Bhortake  
Principal, MMIT, Lohgaon, Pune

## Convenor

Dr. Anjali Joshi  
Head of Department, Mechatronics Engineering, MMIT, Lohgaon, Pune

## Coordinator

Prof. Sonali S Patil  
Assistant Professor, Mechatronics Engineering, MMIT, Lohgaon, Pune

The add-on course aims to introduce the MATLAB Environment. The add on course will give insight into the programming using MATLAB. The participants come to know MATLAB usage for different work conditions.



## Agenda:

1. Basics of MATLAB Programming
2. Array operations in MATLAB
3. Loops and execution control
4. Working with files: Scripts and Functions
5. Plotting and program output.
6. Approximations and Errors
7. Numerical Differentiation in single variable
8. Differentiation in multiple variables
9. Newton-Cotes integration formulae
10. Linear algebra in MATLAB.

## Learning Outcomes:

This course introduces students to MATLAB programming, and demonstrates its use for scientific computations. The basis of computational techniques is expounded through various coding examples and problems and practical ways to use MATLAB is discussed. Students learned the basics of MATLAB programming and got introduced to numerical methods for engineering problems. Students are able to use MATLAB to solve computational problems.

## The details about Add on course:

Title of Add on course : Add-On course On "Matlab Programming for Numerical Computation"

**Date:** 21st Sep to 13rd Oct 2022 **Duration :** 40Hrs.

**After successful completion of add on course the Question Answer session was organized for participants.**



### **Vote of thanks:**

Dr Anjali Joshi, Head of Mechatronics Engineering, expressed thanks to Management for supporting and to Principal for motivating to arrange the add-on course. The participants of the course wish to thank resource person, and all the staff from MMIT for their dedication to show all aspects of the process, making the add-on course a valuable learning experience. Prof Sonali Patil has coordinated the course very well.


The course was concluded with a vote of thanks and feedback of Participants. After submission of Participants feedback, E-Certificate provided to Participants.

### **Images of add on course:**





**List of Participants:**


 Marathwada Mitra Mandals  
 Institute of Technology, Lohaon, Pune  
 Academic Year 2022-23 Sem I  
 Mechatronics Engineering Department  
 Add On Course On 21<sup>st</sup> Sep to 13<sup>th</sup> Oct 2022  
 "Matlab Programming for Numerical Computation"

Class: TE	Sl.no	Roll call	Name	21/9	22/9	23/9	27/9	28/9	29/9	30/9	1/10
1	TMX01	AMBRE AYUSH AJIT									
2	TMX02	AMBRE PIYUSH AJIT									
3	TMX03	BHONDAVE SAURABH G									
4	TMX04	DESHMUKH PRATHAMESH									
5	TMX05	DESHMUKH SANGRAMRAJE									
6	TMX06	DHORE AKANKSHA DIGAMBAR									
7	TMX07	GADHE BHAGYSHRI S									
8	TMX08	GAIKWAD LEENA TANAJI									
9	TMX09	KACHARE PRATHAMESH ANIL									
10	TMX10	KADAM AVISHKA UMESH									
11	TMX11	KAMBLE PRITEE PRADIP									
12	TMX12	KARPE SURAJ VISHWAS									
13	TMX13	KHARAT OMKAR SHASHIKANT									
14	TMX14	LAWAND OMKAR BAJIRAO									
15	TMX15	MAHAJAN GOVATI VIRENDRA									
16	TMX16	MAHAJAN NIRAJ ONKAR									
17	TMX17	MAKWANA GAURAV HITEN									
18	TMX18	MALEKAR SHARAYU NANASAHEB									
19	TMX19	MAWAL AISHWARYA PANKAJ									
20	TMX20	NARALE PRATHAMESH DHANANJAY									
21	TMX21	NAWALE SHUBHAM MAHESH									
22	TMX22	NIKALJE SAHIL HARAYAN									
23	TMX23	PALANDE YASHRAJ RAVINDRA									
24	TMX24	PANDEY ABHISHEK MAHENDRA									
25	TMX25	SHINGOTE ABHIJEET DINKAR									
26	TMX26	THAKUR KARAN RAMESH									
27	TMX27	VARPE HARSHVARDHAN MADAN									
28	TMX28	VISHWAKARMA ABHINAV SUBHASH									
29	TMX29	JAIN VRUSHABH DILIP									
30	TMX30	GAIKWAD ABHISHEK SUNIL									
31	TMX31	BHAGWAT MAYUR VASANT									
32	TMX32	CHENNUR OMKAR GURUPRASAD									
33	TMX33	HAREL ABHISHEK RAJENDRA									
34	TMX34	DESHPANDE SAMEER NAGESH									
35	TMX35	BARAPATRE ANAND NARENDRA									
36	TMX36	PALANDE PRASAD RAVINDRA									
37	TMX37	AYUSH KARPE VASUDEV									





Marathwada Mitra Mandals  
Institute of Technology, Lohaon, Pune  
Academic Year 2022-23 Sem I

Mechatronics Engineering Department

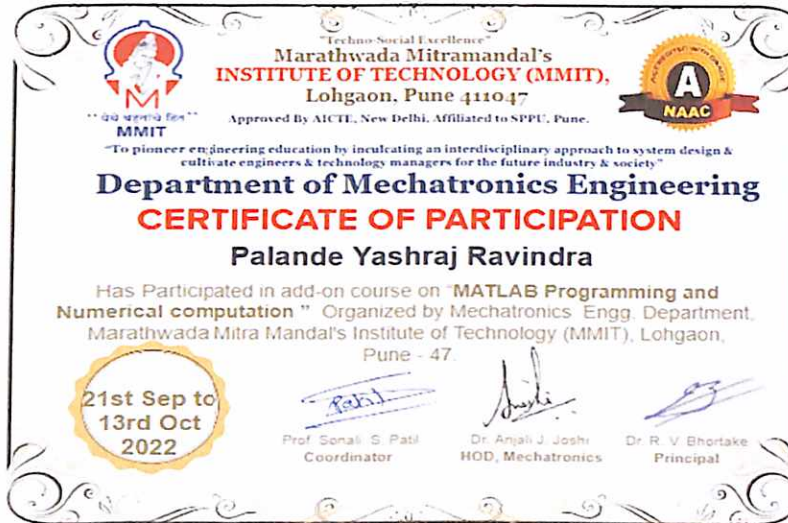
Add On Course On 21<sup>st</sup> Sep to 13<sup>rd</sup> Oct 2022

"Matlab Programming for Numerical Computation"

Sl. No.	Name	Dates										
		1/10	6/10	7/10	8/10	10/10	11/10	12/10	13/10			
1	TMX01	F. NERE AYUSH AJIT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	TMX02	AMERE PIYUSH AJIT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	TMX03	BHONDAVE SAURABH G	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
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6	TMX06	DHORE AKANKSHA DIGAMBAR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
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21	TMX21	MARWALE SHUBHAM MAHESH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
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37	TMX37	AYUSH KARPE VASUDEV	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB



**Sample Certificate:**



**Sonali S Patil**

**Faculty Coordinator**

**Dr A J Joshi**

**Head of Mechatronics Engineering  
Department**

