



Report on

Hands on training programme on “Mat lab onramp”

Date : 9/10/2023 to 12/10/2023

COURSE: BSc ECs 3rd SEMESTER.

Resource person: Mrs ASHARANI R

Venue: 301 COMPUTER LAB

Objectives:

- Make students to learn the basic MATLAB commands
- Make students to learn familiarise with the different windows of MATLAB
- Students are capable to write the simple MATLAB program to perform the mathematical operations

MATLAB is a multi-purpose mathematical computing environment used for various applications. Mat lab codes are useful to program the mathematical operations, signal processing, image processing and computer vision. The Fundamental skills in required for students to design any computational modules at various level is helps them in various Electronics field. The Department is identified this area to address the students by delivering a hands on training on MATLAB of 3 hours. Then students are instructed to write the mat lab code for simple mathematical operation to enhance the programming skills.

This student created their own account in the mathwork.com in order to start the course then all the students instructed to provide the appropriate data required to create the account. All the students are taken the course offered by the mathwork.com. the working MATLAB environment consisting of different windows for example command window, editor window, workspace.

Students started writing the codes initially on the command window, the different task like variable assignment, simple mathematical calculation, data handled etc.command window allow user to execute one line at a time. If we want to execute a program that performs a



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particular mathematical operation consisting of multiple lines is the challenging task hence students are instructed to use the script window or editor window. The guidelines for error messages and warning indicator are told to debug the program and to rectify the errors in the written program in the script window in the MATLAB environment.

Students are exposed for arrays in MATLAB environment viz creation of one dimensional and multidimensional vectors, array creation functions, indexing array elements, extracting multiple elements. Changing values in the array, operations on array, creating matrix of random variables.

The major application is MATLAB is to create the visualization of data so in this session students are instructed to practice some of the visual commands like plot, MATLAB uses the vector values as the y-axis data and sets the x-axis data to range from 1 to n (the number of elements in the vector). Some of the commands used for line width, colour of the graphs, labels for the graphs are discussed. Data interpretation is one of the important applications of MATLAB so next task we discussed was data handling in the MATLAB. The in charge teacher provides some practice exercise program for students and verified the output of the written code in mat lab environment

Outcome:

- Students learnt the MATLAB codes for basic mathematical operations
- Students are cable to write simple MATLAB programs for arrays, modification of array elements, indexing, vectors, data handling
- Students received the MATLAB onramp certificate from mathwork.com

Vatshala

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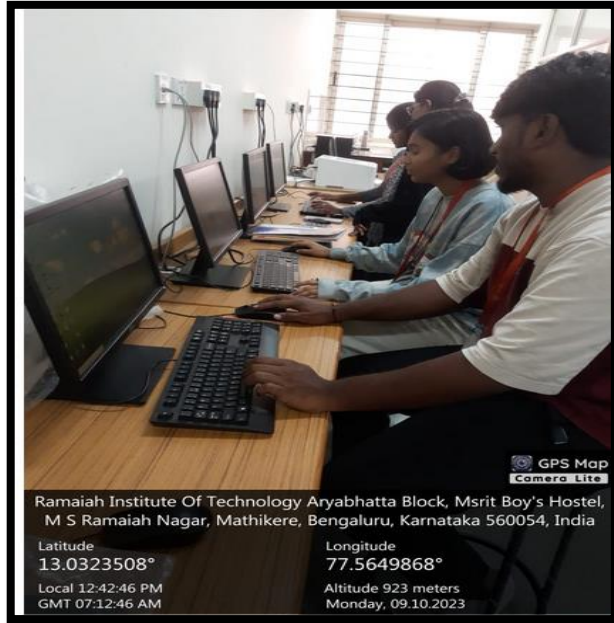
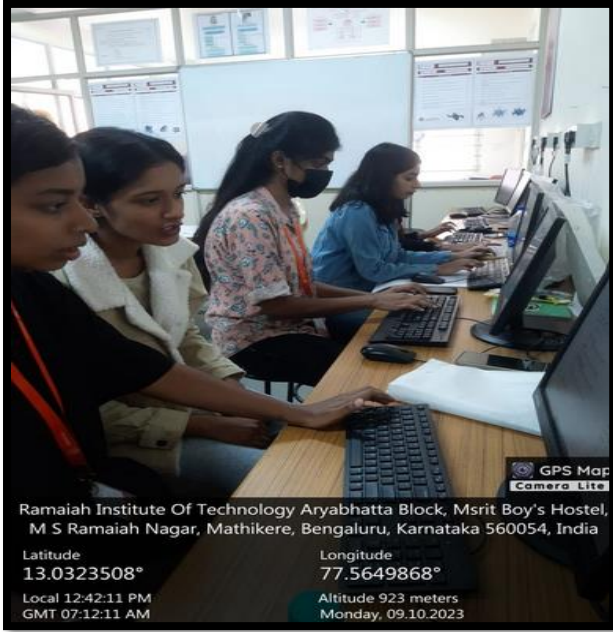
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Photos of Hands on training program on “Mat lab onramp” for 3rd semester students of BSc [ECs].

DATE: 9/10/2023 to 12/10/2023

PLACE: 301 Computer Lab , MS Ramaiah College Of Arts Science And Commerce.



Certificate:



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Participant list

DATE: 9/10/2023 to 12/10/2023

PLACE: 301 Computer Lab , MS Ramaiah College Of Arts Science And Commerce.

Sl No;	Register Number	Student name	Signature of the student
1	U18EV22S0218	SHIVAM CHAUBEY	
2	U18EV22S0276	SHARATH KUMAR B	
3	U18EV22S0052	PAYAVULA SANATH VISHNU	
4	U18EV22S0219	HEMANTH S	
5	U18EV22S0061	NAYANA H L	
6	U18EV22S0062	SRIDHARAN ISHA	
7	U18EV22S0063	HARSIBITH GOWDA M	
8	U18EV22S0220	M ROHINI	
9	U18EV22S0064	ANUSHA R	
10	U18EV22S0065	THRISHA N	
11	U18EV22S0066	T GOUTHAM KUMAR	
12	U18EV22S0231	PAVITHRA N	
13	U18EV22S0349	PAVAN KUMAR V	
14	U18EV22S0353	SANGEETHA R	
15	U18EV22S0362	SHREYA GONI	
16	U18EV22S0363	TEJASWINI S	
17	U18EV22S0373	SANJANA R	
18	U18EV22S0374	SARANYA M P	
19	U18EV22S0372	KEERTHI PRAHALAD K	
20	U18EV22S0365	R KRISHNA MURTHY	

Faculty incharge:
(Mrs Asharani R)

HOD

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DBT Star College Scheme
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