



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda(H), Gundlapochampally Village, Medchal
Mandal, Medchal-Malkajgiri District, Telangana State – 500100

CIRCULAR

Date: 02/07/2019

All the 3rd /I Sem Year students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Remote Controlled Robotics -I & II, Multimedia - 2D & 3D Basic Animations, Software's related to 3D Printing Selection of proper 3D Printing materials, Advanced MATLAB(MATLB PRO), Advanced JAVA in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 08/07/2019. For further details, please contact Centre of Excellence, MREC(A)


Principal

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

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MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION

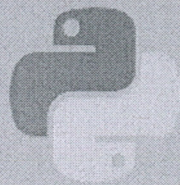
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100 Medchal - Malkajgiri District Telangana, India



COMPUTER SOFTWARE

**HTML ,PYTHON WITH DJANGO ,JAVA ,
SCRATCH PROGRAMMING**

**LAB VIEW, FOUNDATION OF BLOCK CHAIN,
MATLAB, BLOCK CHAIN REVOLUTION, MATLAB PRO,
ADVANCE JAVA, ADVANCE PYTHON.**



python



Java

Course Duration -: 4 Months

Before Software can be Reusable

it First has to be Usable.

Raveesh

Principal
Malla Reddy Engineering College
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(Post Via Kompally), Sec'bad-500100



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Telangana State – 500100

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Name: Matlab

Introduction to MATLAB

Brief Introduction, Installation of MATLAB, History, Use of MATLAB, Key features

MATLAB software

Introduction to MATLAB Software, MATLAB window, Command window, Workspace, Command history, Setting directory, Working with the MATLAB user interface, Basic commands, Assigning variables, Operations with variables

Data files and Data types

Character and string, Arrays and vectors, Column vectors, Row vectors

Basic Mathematics BODMAS Rules

Arithmetic operations, Operators and special characters, Mathematical and logical operators, Solving arithmetic equations

Operations on matrix

Creating rows and columns Matrix, Matrix operations, Finding transpose, determinant and inverse, Solving matrix

Other operations

Trigonometric functions, Complex numbers, fractions, Real numbers, Complex number

M files Working with script tools

Writing Script file, Executing script files, The MATLAB Editor, Saving m files

Plots

Plotting vector and matrix data, Plot labelling, curve labelling and editing

2D plots

Basic Plotting Functions, Creating a Plot, Plotting Multiple Data Sets in One Graph, Specifying Line Styles and Colors

Graphing Imaginary and Complex Data, Figure Windows, Displaying Multiple Plots in One Figure, Controlling the Axes

3D plots



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Creating Mesh and Surface, About Mesh and Surface Visualizing, Subplots

GUI Design

Introduction Of Graphical User Interface, GUI Function Property, GUI Component Design, GUI Container, Writing the code of GUI Callback, Dialog Box, Menu Designing, Applications

MATLAB Simulink

Introduction Of Simulink, Simulink Environment & Interface, Study of Library, Circuit Oriented Design, Equation Oriented Design, Model, Subsystem Design, Connect Call back to subsystem , Application

MATLAB Programming

Automating commands with scripts, Writing programs with logic and flow control, Writing functions, Control statement Programming, Conditional Statement Programming, Examples

Loops and Conditional Statements

Control Flow Conditional Control — if, else, switch, Loop Control — for, while, continue, break, Program Termination — return

Functions

Writing user defined functions, Built in Function, Function calling, Return Value, Types of Functions, Global Variables

Image Processing with MATLAB

Importing and Visualizing Images, Importing and displaying images, Converting between image types

Exporting images, Interactive Exploration of Images, Obtaining pixel intensity values, Extracting a region of interest

Computing pixel statistics, Measuring object sizes, Creating a custom interactive tool, Preprocessing Images

Adjusting image contrast, Reducing noise in an image, Using sliding neighborhood operations, Using block processing operations

Symbolic Math in MATLAB Calculus: Numerical Integration

Linear Algebra, Roots of Polynomials, Algebraic equations, Differential Equations (1st & 2nd order), Transforms (Fourier, Laplace, etc), Ordinary Differential equations, Examples of few ODEs



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Course: Advanced
MATLAB(MATLB
PRO)

Date:08/07/2019 to
01/11/2019

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	17J41A01H3	V.Sukanya	CE
2.	17J41A01F3	N.Rakesh Reddy	CE
3.	17J41A01F2	Mohammad Raheem	CE
4.	17J41A01H0	TIKARAM DINESH KUMAR	CE
5.	17J41A1232	MUNDRA NIHARIKA	IT
6.	17J41A1246	PREET PAL SINGH SANDHU	IT
7.	17J41A0237	MOHAMMED SHOEB AKTHER	EEE
8.	17J41A0241	NAGULA VENU	EEE
9.	17J41A0245	PADALA PRANEETH KUMAR	EEE
10.	17J41A0248	POTHARAJU RAJU	EEE
11.	17J41A0252	SOPPARWAR VIJAY	EEE
12.	17J41A0255	TELUGU SRAVANI	EEE
13.	17J41A0258	YERRA VENKATA KAVYA	EEE
14.	17J41A03N2	MOGILIPALEM NAVEEN	ME
15.	17J41A03N4	NAGARAJU YOUNGENDER	ME
16.	17J41A03N7	P MAHESH	ME
17.	17J41A03L8	RACHOORI KARTHIK	ME
18.	17J41A03L9	SAI PARAMKUSHAM KARAN	ME
19.	17J41A03M0	SHAIK MOHAMMAD RAFI	ME
20.	17J41A03M5	VANKUDOTHU RAMDAS	ME
21.	17J41A04F2	KOLIPAKA ROHITH	ECE
22.	17J41A04F8	MEEDINLA KIRAN KUMAR	ECE
23.	17J41A04G3	PARASA BHAVANA	ECE
24.	17J41A04G7	S VARSHINI	ECE
25.	17J41A04H0	SOMA SIDDHARTH	ECE
26.	17J41A05M2	NAGIREDDYGARI SIRI	CSE
27.	17J41A05N2	SANGAM AISHWARYA	CSE
28.	17J41A05P5	YENUGU NITHISH	CSE
29.	17J41A05P8	NUNE ABHILASH	CSE
30.	17J41A0530	KUTHATI HARIKA	CSE

Raveesh
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

SUMMARY

ADVANCED MATLAB

MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. Typical uses include:

- Math and computation
- Algorithm development
- Modeling, simulation, and prototyping
- Data analysis, exploration, and visualization
- Scientific and engineering graphics
- Application development, including Graphical User Interface building

MATLAB is an interactive system whose basic data element is an array that does not require dimensioning. This allows you to solve many technical computing problems, especially those with matrix and vector formulations, in a fraction of the time it would take to write a program in a scalar noninteractive language such as C or Fortran.

The name MATLAB stands for matrix laboratory. MATLAB was originally written to provide easy access to matrix software developed by the LINPACK and EISPACK projects, which together represent the state-of-the-art in software for matrix computation.

MATLAB has evolved over a period of years with input from many users. In university environments, it is the standard instructional tool for introductory and advanced courses in mathematics, engineering, and science. In industry, MATLAB is the tool of choice for high-productivity research, development, and analysis.

MATLAB features a family of application-specific solutions called toolboxes. Very important to most users of MATLAB, toolboxes allow you to *learn* and *apply* specialized technology. Toolboxes are comprehensive collections of MATLAB functions (M-files) that extend the MATLAB environment to solve particular classes of problems. Areas in which toolboxes are available include signal processing, control systems, neural networks, fuzzy logic, wavelets, simulation, and many others.



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Certificate Of the Course Completion

This is to Certify that

KETHIRI SAI KRISHNA

*has Successfully Completed Advanced MatLab (Matlab Pro)
Offered by Centre of Excellence, MREC(A) on 01/11/2019 bearing
with Roll No. 17J41A0227 and Branch EEE.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Maisammaguda, Chulapally,
(Post Via Kompally), Sec-604 500100

Dr.S.Sudhakara Reddy
Conference Chair &Principal



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Certificate Of the Course Completion

This is to Certify that

M ROHIT

*has Successfully Completed Advanced MatLab (Matlab Pro)
Offered by Centre of Excellence, MREC(A) on 01/11/2019 bearing
with Roll No. 17J41A1227 and Branch IT.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Maisamma Nagar, Dhulapally,
(Post Via Kompally), Serkad-500100

Dr.S.Sudhakara Reddy
Conference Chair &Principal



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Certificate Of the Course Completion

This is to Certify that

MALAHA MOHITH

has Successfully Completed Advanced MatLab (Matlab Pro)

Offered by Centre of Excellence, MREC(A) on 01/11/2019 bearing

with Roll No. 17J41A01E8 and Branch CE.

Dr.N.Rishikanth
COE Dean

Dr.S.Sudhakara Reddy
Conference Chair &Principal

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-10a-500100



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Certificate Of the Course Completion

This is to Certify that

MATTAPALLI JAGADEESH KRISHNA

has Successfully Completed Advanced MatLab (Matlab Pro)
Offered by Centre of Excellence, MREC(A) on 01/11/2019 bearing
with Roll No. 17J41A05L9 and Branch CSE.

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Matsamaguda, Dhulapally,
(Post: Matsamaguda, Sec'bad-500100)

Dr.S.Sudhakara Reddy
Conference Chair &Principal



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Certificate Of the Course Completion

This is to Certify that

VISHLAVATH MADHURI

*has Successfully Completed Advanced MatLab (Matlab Pro)
Offered by Centre of Excellence, MREC(A) on 01/11/2019 bearing
with Roll No. 17J41A05P3 and Branch CSE.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Malsamraguda, Chulapally,
(Post Via Kompally), M.C. Road 500101

Dr.S.Sudhakara Reddy
Conference Chair &Principal