



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 08/08/2019

All the 1st /I Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Robotic Process Automation-I, Graphic Designing - I (Photoshop & Illustrator), Green Matte Studio - Audio Effects/Transitions, Scrach Programming in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 13/08/2019 . For further details, please contact Centre of Excellence, MREC(A)


Principal

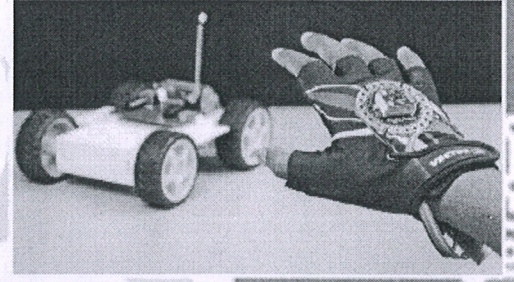
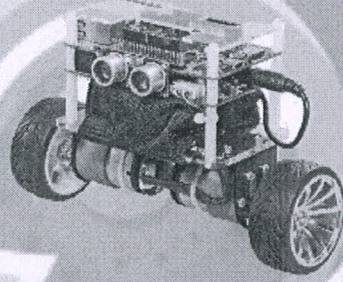
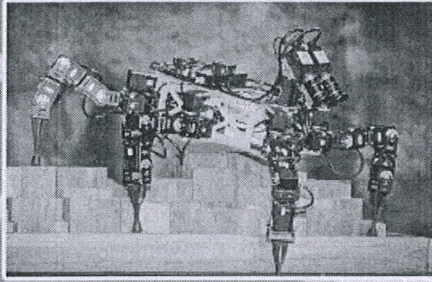
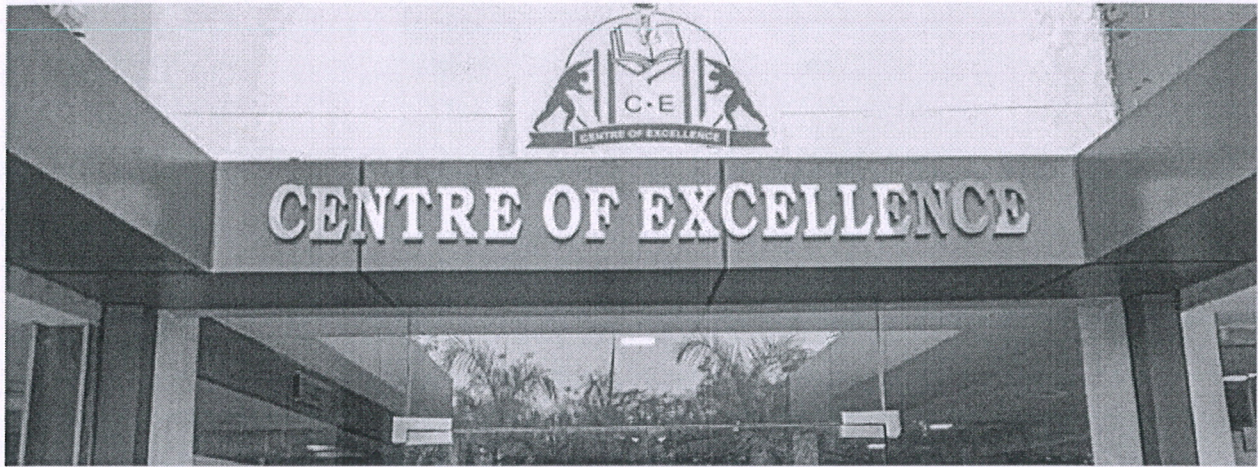
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

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MALLA REDDY ENGINEERING COLLEGE
MAIN CAMPUS, AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100 Medchal - Malkajgiri District Telangana, India



ROBOTIC'S TRAINING

**Guide To Build Software Robots,
Automate Repetitive Tasks.**

**Learn Arduino, Design Industrial
Robots, Motion Control Robots,
Autonomous Robots, IOT,
Android Robots.**

Course Duration -: 4 Months

**Hands-on experience is the best way to learn
about all the interdisciplinary aspects of Robotics.**

Raveesh
Principal,
Malla Reddy Engineering College,
Maisammaguda, Dhulapally,
via Kompally, Secbad-500100



SYLLABUS

	MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE	
ROBOTICS PROCESS AUTOMATION-I		

MODULE I: Introduction to Robotics

Introduction to robots, history, etymology, new technologies Types of robots, 4-D Conditions & Laws of robots, Mathematics of triangle, circle, angle & delay relationships, Concept of a tricycle robot model, Practical understanding Delay, projection and movement,

MODULE-II: Robotics Systems

Robotics System - Block diagram & description, Hands on session on Robot Chassis Design & Assembly Manual robot ,Design with OCU

MODULE-III: Introduction to basic electronics

Introduction to basic electronics (Analogue & Digital), Voltage, Current & Ohm's Law, Multi-meter basics and how to use it, Voltage Divider Rule - Concept, Equation & Application, Hands on session on voltage & Current measurement, Arduino robot development Platform

MODULE-IV: DPDT Design

Action Planning table of DPDT control, DPDT-Connection, Hands on session on DPDT based Robot Design, OCU Design

MODULE V: Electronic Components

Resistors - Types, Colour Coding & Applications, Capacitors Requirement analysis - Types, Identification & Applications, Inductors - Basics & Applications, Diodes - Types, Identification & Applications, Transistors - NPN, PNP, Identification & Applications, DMM

Raveendra
Principal

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



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

Course:Robotics
and Automation-I

Date:13/08/2019
to 31/11/2019

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	19J41A0106	ANUJ ROY	CE
2.	19J41A0107	ARE ABHINAV	CE
3.	19J41A0108	BAGANAGARI DHANUSH GOUD	CE
4.	19J41A1203	AJLY NEERAJ	IT
5.	19J41A1204	ALIMI ADITYA	IT
6.	19J41A1205	ALLURI ROHITH REDDY	IT
7.	19J41A0207	B.VARSHA	EEE
8.	19J41A0209	B.SANDEEP	EEE
9.	19J41A0210	B.HARSHA VARDHAN	EEE
10.	19J41A0220	G.SAI KRISHNA	EEE
11.	19J41A0307	ARUN NAIK KATROTH	ME
12.	19J41A0309	BHUKYA MAHESH	ME
13.	19J41A0310	BHUKYA SIDDU	ME
14.	19J41A0311	BODA ANIL	ME
15.	19J41A0316	DONTHU SANJAY	ME
16.	19J41A0317	EDEM SHIVA SANTOSH PRASAD	ME
17.	19J41A0328	KELOTH PRAVEEN	ME
18.	19J41A0407	BANDI PRIYANKA	ECE
19.	19J41A0408	BANOTH CHAKRI	ECE
20.	19J41A0409	BHUKYA RAJENDER	ECE
21.	19J41A0410	BIJJA ABHINAV	ECE
22.	19J41A0411	BOINI SAI PRAKASH	ECE
23.	19J41A0413	BOYAPATI SREYA REDDY	ECE
24.	19J41A0427	GUDE NARENDER	ECE
25.	19J45A2502	BATHINI VIJAY KUMAR	MINING
26.	19J41A2512	CHILUMULA PRAVEEN	MINING
27.	19J41A0508	BANJA ASHITHA	CSE
28.	19J41A0512	BONASPURAM DIVESH REDDY	CSE
29.	19J41A0524	HITEESHA GELLANKI	CSE
30.	19J41A0530	KUTHATI HARIKA	CSE

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

SUMMARY

Robotics and Automation

Robotics is a multidisciplinary field of science and engineering that is concerned with the design, manufacturing, and use of mechanical robots. Our Course will provide you with a solid knowledge of robotics, covering several types of robots, how they're used in various industries, and the fundamentals of electronics.

Robotics is a branch of engineering that deals with the design and use of robots, as well as the use of computers to manipulate and process them. In industries, robots are employed to speed up the production process. They are also utilized in nuclear research, marine exploration, transmission electric signal service, bio-medical equipment design, and so on. Robotics necessitates the use of computer-aided manufacturing (CAM), mechanical engineering, electrical engineering, biological mechanics, and software engineering.

Robotics and automation the use of control systems and information technologies to minimize the demand for human labor in the creation of products and services is referred to as engineering. Automation is a step beyond mechanization in the context of industrialization.

A robotics engineering specialty may lead to employment possibilities in manufacturing, research and engineering, agricultural, mining, nuclear, power-plant maintenance, and a number of other fields. Furthermore, there is a lot of opportunity for competent professionals and researchers to work on many aspects of robotics R&D. As shown by the current worldwide career trend in robotics, areas as varied as surgery, contemporary warfare, and nanotechnology have seen a significant rise in their need for robotics technical professionals and researchers


Principal

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MALLA REDDY ENGINEERING COLLEGE

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Certificate

Of the Course Completion

This is to Certify that

GUDE NARENDER

*has Successfully Completed Robotic Process Automation I
Offered by Centre of Excellence, MREC(A) on 30/11/2019 bearing
with Roll No. 19J41A0427 and Branch ECE.*

Dr.N.Rishikanth
COE Dean

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

Dr.S.Sudhakara Reddy
Conference Chair &Principal



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Certificate
Of the Course Completion

This is to Certify that

ABHINAV

has Successfully Completed Robotic Process Automation I
Offered by Centre of Excellence, MREC(A) on 30/11/2019 bearing
with Roll No. 19J41A0107 and Branch CE.

Dr.N.Rishikanth
COE Dean

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

Dr.S.Sudhakar Reddy
Conference Chair &Principal



MALLA REDDY ENGINEERING COLLEGE
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Certificate
Of the Course Completion

This is to Certify that

ALLURI ROHITH REDDY

*has Successfully Completed Robotic Process Automation I
Offered by Centre of Excellence, MREC(A) on 30/11/2019 bearing
with Roll No. 19J41A1205 and Branch IT.*

Dr.N.Rishikanth
COE Dean

Dr.S.Sudhakara Reddy
Conference Chair &Principal

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
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Certificate
Of the Course Completion

This is to Certify that

BHUKYA MAHESH

has Successfully Completed Robotic Process Automation I
Offered by Centre of Excellence, MREC(A) on 30/11/2019 bearing
with Roll No. 19J41A0309 and Branch ME.

Dr.N.Rishikanth
COE Dean

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

Dr.S.Sudhakar Reddy
Conference Chair &Principal



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate Of the Course Completion

This is to Certify that

BIJJA ABHINAV

*has Successfully Completed Robotic Process Automation I
Offered by Centre of Excellence, MREC(A) on 30/11/2019 bearing
with Roll No. 19J41A0410 and Branch ECE.*

Dr.N.Rishikanth
COE Dean

Dr.S.Sudhakara Reddy
Conference Chair &Principal

Principal
Malla Reddy Engineering College
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