



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 19/07/2017

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 Editing Basics, Scratch Programming in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 24/07/2017. For further details, please contact Centre of Excellence, MREC(A)


Principal

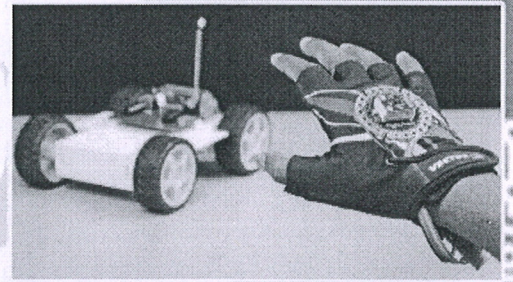
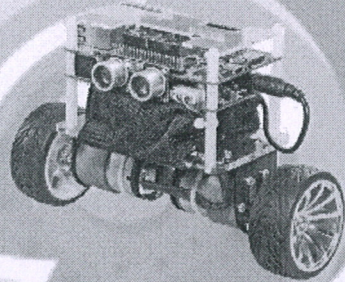
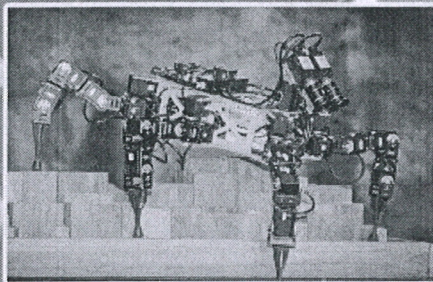
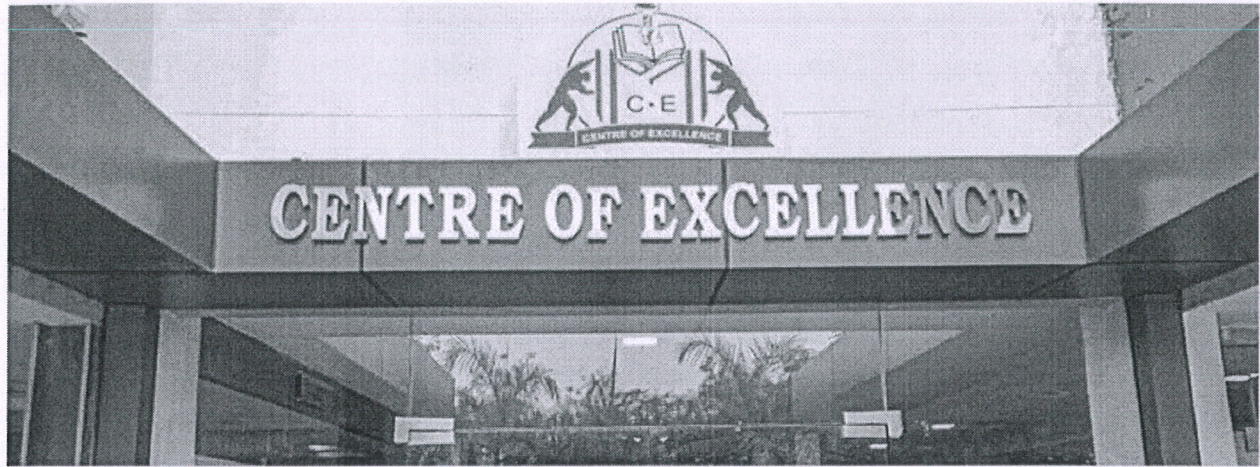
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Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

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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

Raveendh
Principal

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



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

Course: Robotic Process
Automation-I
Date: 24/07/2017 to
28/11/2017

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	17J41A0146	ALUR VINITH VITHAL	CE
2.	17J41A0163	ABHIVARSHITHA CHOWDARY GUDIPATI	CE
3.	17J41A01A1	AKULA SHIVA	CE
4.	17J41A1202	ANMISHETTY NAGA PRIYA	IT
5.	17J41A1206	DHEVARSHINI REDDY	IT
6.	17J41A1211	CHINNAGARAJU NAVEEN KUMAR	IT
7.	17J41A1219	INDRAGANTI SHANMUKHA PRIYA	IT
8.	17J41A1225	KUNINTI KEERTHI REDDY	IT
9.	17J41A1229	MEDISHETTI SATHWIK	IT
10.	17J41A1236	NENAVATH RAKESH NAYAK	IT
11.	17J41A0202	ALETI AJAY KUMAR REDDY	EEE
12.	17J41A0205	B MRINALINE	EEE
13.	17J41A0208	BANOTHU NAGENDAR NAIK	EEE
14.	17J41A0221	GUNJI PRAVALIKA	EEE
15.	17J41A03E6	GUNDEMONI VENU GOPAL	ME
16.	17J41A0384	GUDIPALLI VINAY REDDY	ME
17.	17J41A0375	BYNABOINA KALYAN	ME
18.	17J41A0301	ABHISHEK KUMAR SINGH	ME
19.	17J41A0305	BIRUDULA ANIL KUMAR	ME
20.	17J41A0311	DAMERAGIDDE NITHISH	ME
21.	17J41A0403	BANKULLA NEHA REDDY	ECE
22.	17J41A0414	GANDU DEEKSHITH	ECE
23.	17J41A0420	JADI SAI KUMAR	ECE
24.	17J41A0427	KARNE KARTHIK	ECE
25.	17J41A2508	GARA PAVANKALYAN	MINING
26.	17J41A2519	KAUSHIK ANUMALA	MINING
27.	17J41A0583	GOWARAVARAPU AKHIL KUMAR	CSE
28.	17J41A0587	KANDULA NIRMALA	CSE
29.	17J41A0593	LAKKINENI SAI SHANKAR	CSE
30.	17J41A0599	NAGOLU MANASA	CSE

Raveendh

Principal
Malla Reddy Engineering College
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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


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Certificate

Of the Course Completion

This is to Certify that

ABHIVARSHITHA CHOWDARY GUDIPATI

has Successfully Completed Process Automation-I Course Offered by
Centre of Excellence, MRFC(A) on 28/11/2017 bearing with
Roll No. 17J41A0163 and Branch CE.

Dr. Yogesh Madaria
CONVENOR

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

Dr. S. Sudhakara Reddy
Conference Chair & Principal



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Certificate

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This is to Certify that

ALETI AJAY KUMAR REDDY

*has Successfully Completed Process Automation-I Course Offered by
Centre of Excellence, MREC(A) on 28/11/2017 bearing with
Roll No. 17J41A0202 and Branch EEE.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
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Dr. S. Sudhakar Reddy
Conference Chair & Principal



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Certificate Of the Course Completion

This is to Certify that

BANKULLA NEHA REDDY

*has Successfully Completed Process Automation-I Course Offered by
Centre of Excellence, MREC(A) on 28/11/2017 bearing with
Roll No. 17J41A0403 and Branch ECE.*

Dr. Yogesh Madaria
CONVENOR

Malla Reddy Engineering College
Maisammaguda, Dhulapally,
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Dr. S. Sudhakara Reddy
Conference Chair & Principal



MALLA REDDY ENGINEERING COLLEGE

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Certificate

Of the Course Completion

This is to Certify that

GUNDEMONI VENU GOPAL

*has Successfully Completed Process Automation-I Course Offered by
Centre of Excellence, MREC(A) on 28/11/2017 bearing with
Roll No. 17J41A03E6 and Branch ME.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisamma guda, Dhulapally.

Dr. S. Sudhakara Reddy
Conference Chair & Principal

(Post via Kompaty), Sec'bad-500100



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate

Of the Course Completion

This is to Certify that

DHEVARSHINI REDDY

*has Successfully Completed Process Automation-I Course Offered by
Centre of Excellence, MRFC(A) on 28/11/2017 bearing with
Roll No. 17J41A1206 and Branch IT.*

Dr. Yogesh Madaria
CONVENOR

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

Dr. S. Sudhakara Reddy
Conference Chair & Principal