



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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


CIRCULAR

Date: 25/07/2018

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 30/07/2018. For further details, please contact Centre of Excellence, MREC(A)

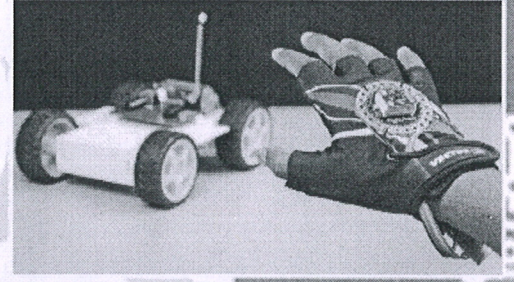
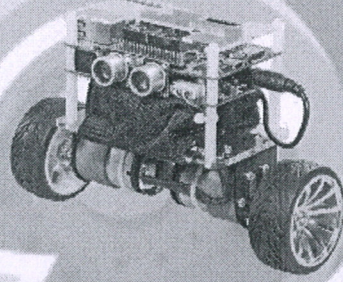
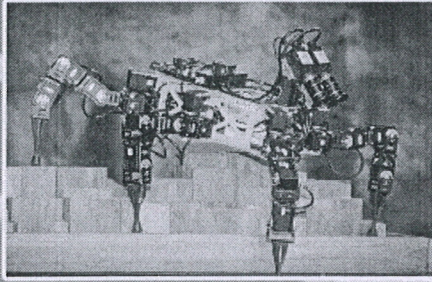
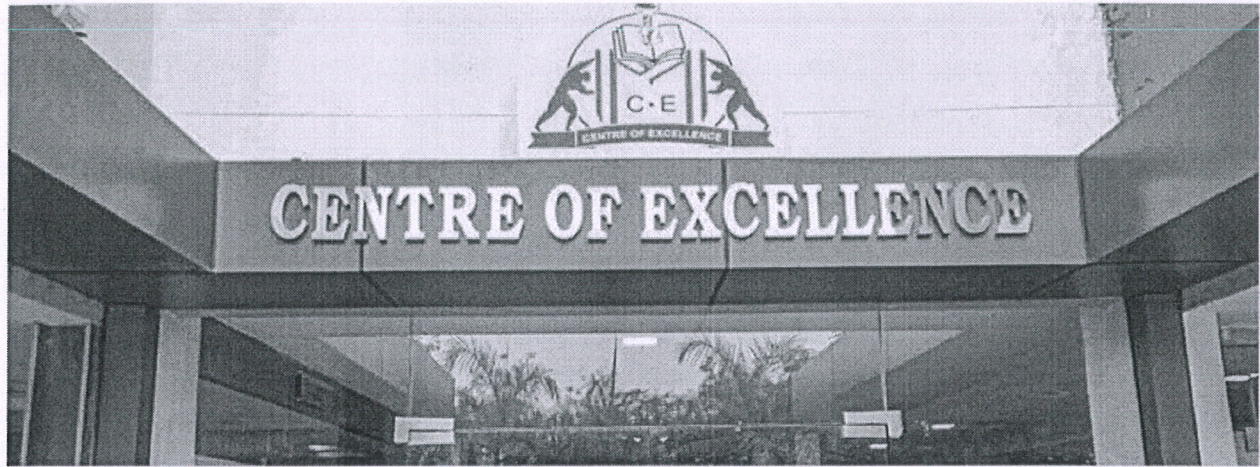
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9. Transport Manager-for necessary action
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11. Admin Office
12. System Admin
13. Placement Cell
14. PA to Principal for Filling


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



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

Course: Robotic Process
Automation-I

Date: 30/07/2018 to
15/12/2018

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	18J41A0156	SYED AZHARUDDIN	CE
2.	18J41A0101	ALUVALA SOUMYA	CE
3.	18J41A0105	KRISHNA REDDY KOPPULA	CE
4.	18J41A0108	Amgothu Krishnaveni	CE
5.	18J41A1201	ALAPATI SIDDHARTHA	IT
6.	18J41A1204	BANDARI GANESH	IT
7.	18J41A1213	DIPANKAR MAITI	IT
8.	18J41A1221	GANGWAR SHREYAN REDDY	IT
9.	18J41A1225	KACHAM SURYADEV	IT
10.	18J41A1232	MOLUGU AKSHAYA	IT
11.	18J41A0211	Datla Susmitha	EEE
12.	18J41A0214	Eslavath Sowmya	EEE
13.	18J41A0231	Koppula lohith	EEE
14.	18J41A0310	DANAM SAISANATH	ME
15.	18J41A0315	ERRAVELLY SHYAM PRASAD	ME
16.	18J41A0321	KALA SAI SINDHU	ME
17.	18J41A0328	MAHARAJU HRUTHIK	ME
18.	18J41A0401	Arigela Srinivas	ECE
19.	18J41A0404	B.Pavan Kumar	ECE
20.	18J41A0408	B.Keerthana	ECE
21.	18J41A0414	D.Vennela	ECE
22.	18J41A0428	A.L.C.Keshava	ECE
23.	18J41A0431	Mirza Ibrahim baig	ECE
24.	18J45A2506	CHELIMALLA SAI TEJA	MINING
25.	18J45A2512	KONDAPARTHI GOPI VAMSHI	MINING
26.	18J41A0556	TRISHA VUDEPU	CSE
27.	18J41A0504	BALUSANI SRICHARAN	CSE
28.	18J41A0520	GURIJA SHRAVAN	CSE
29.	18J41A0525	KALYANI JAZI BHANUTEJA	CSE
30.	18J41A0527	KANURI JAYA VARADATTA REVANTH	CSE

Raveesh
Principal
Malla Reddy Engineering College
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(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

MITTA NAVEENKUMAR

*has Successfully Completed Autonomous Robotics -I Course Offered
by Centre of Excellence, MREC(A) on 10/11/2018 bearing with
Roll No. 18J45A2518 and Branch MINING.*

Dr. Yogesh Madaria
CONVENOR

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

NAGOLU MANASA

*has Successfully Completed Autonomous Robotics -I Course Offered
by Centre of Excellence, MREC(A) on 10/11/2018 bearing with
Roll No. 17J41A0599 and Branch CSE.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
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(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

RAAVI LOKESH

*has Successfully Completed Autonomous Robotics -I Course Offered
by Centre of Excellence, MREC(A) on 10/11/2018 bearing with
Roll No. 17J41A1247 and Branch IT.*

Dr. Yogesh Madaria
CONVENOR

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



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This is to Certify that

KODETI SUNDEEP

*has Successfully Completed Autonomous Robotics -I Course Offered
by Centre of Excellence, MREC(A) on 10/11/2018 bearing with
Roll No. 17J41A0389 and Branch ME.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
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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

KORUTLA SRIKANTH

*has Successfully Completed Autonomous Robotics -I Course Offered
by Centre of Excellence, MREC(A) on 10/11/2018 bearing with
Roll No. 17J41A0491 and Branch ECE.*

Dr. Yogesh Madaria
CONVENOR

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