



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 27/11/2019

All the 3rd /II Sem Year students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like IOT, Motion Control Robots, Multimedia – VFX, Green Matte Studio - Video Effects/Transitions, Green Matte Studio - Video Effects/Transitions, Advanced PYTHON in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 02/12/2019. For further details, please contact Centre of Excellence, MREC(A)


Principal

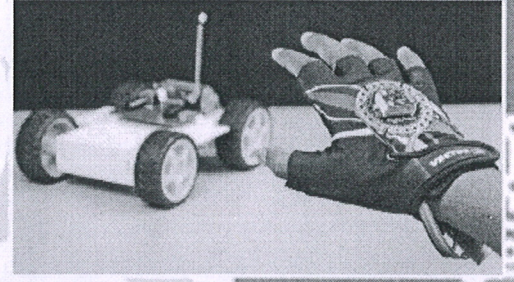
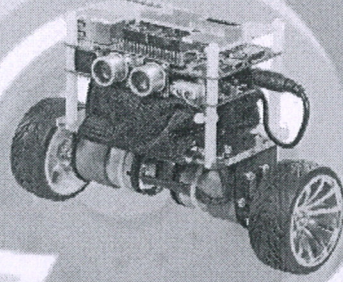
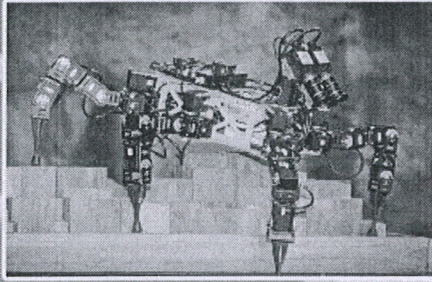
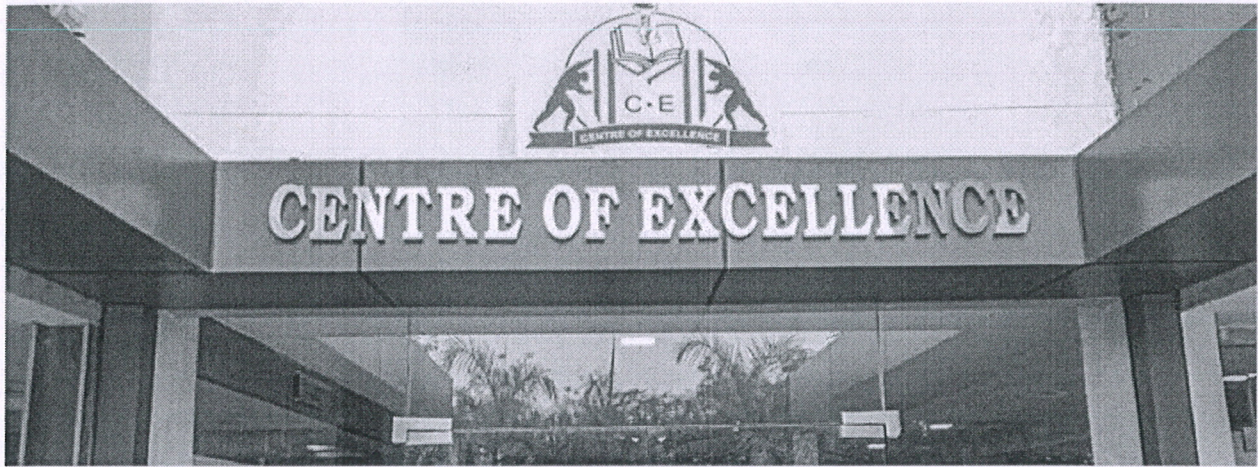
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
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MALLA REDDY ENGINEERING COLLEGE
MAIN CAMPUS, AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100 Medchal - Malkajgiri District Telangana, India



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



MALLA REDDY
ENGINEERING COLLEGE
(Autonomous)
CENTRE OF EXCELLENCE

IOT, MOTION CONTROLLED ROBOTS AND AUTOMATION

MODULE-I: Gyro/Accelerometer Sensors

Introduction to MEMS sensor, Concept of motion detection, Programming MEMS Sensor to interface with controller, Practical Session on designing Motion Controlled robot

MODULE-II: Introduction to Node Mcu/ESP8266

Introduction to NODEMCU, Pin Description and its Operation, Programming concept of NODEMCU and its WIFI Initialization and ESP8266

MODULE-III: IOT Robot

Understanding a IOT Controlled robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, IOT Controlled Robot using Arduino, Research and Development

MODULE-IV: BLYNK Platform

Instructions to use BLYNK IOT Platform, Configuring IOT robot to control from Android Applications

MODULE-V: Automation

Understanding a Industrial, Home Automation Concept, Structure, Algorithm, Line Diagram, Schematics Prototype Development, Industrial, Home Automation using Node Mcu, Research and Development Using Google Assistance and Mobile Applications

Renuka
Principal

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



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

Course:IOT,Motion
Control Robots

Date:02/12/2019 to
28/03/2020

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

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

SUMMARY

Motion Control Robots

Robot motion control allows articulated arms to move by rotating and sliding joints, and mobile robots to move via locomotion and steering. This controlled motion allows the robot to do these complex tasks with whatever end effector is suitable for the job.

When there is more than one method to accomplish anything with a robot, the selected approach should have unique characteristics, such as optimizing distance from a collision. A route may also help you gain strength, save time, avoid workspace limitations, save energy, and increase accuracy. In reality, the ideal motion is typically a blend of these – and other – pure characteristics.

Constraints must be included into motion control. The speed and acceleration of robot joints are limited. Actuators have the most torque or force. The robot's physical components cannot overlap in space, and joint limitations cannot be exceeded. These are limitations imposed by the robot's and the world's physical realities. The intended objectives, restrictions, and optimizations all work together to make robot motion control difficult.

IOT

The Internet of Things (IoT) is a networked system of linked computing devices, mechanical and digital equipment, objects, animals, or people with unique identities and the ability to transmit data across a network without the need for human-to-human or human-to-computer interaction. The Internet of Things, or IoT, refers to the billions of physical objects that are now linked to the internet and collecting and exchanging data all over the globe. Connecting all of these various items and attaching sensors to them gives a degree of digital intelligence to otherwise dumb gadgets, allowing them to transmit real-time data without engaging a human. The Internet of Things is making the fabric of our environment smarter and more responsive, fusing the digital and physical worlds. The phrase "Internet of Things" refers to objects that are not typically anticipated to have an internet connection and can interact with the network without the intervention of a person. As a result, despite being packed with sensors, a PC isn't usually regarded an IoT device, nor is a smartphone.

A smartwatch, fitness band, or other wearable gadget may be considered an IoT device.

Ravendra
Principal

Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500105



MALLA REDDY ENGINEERING COLLEGE
MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate
Of the Course Completion


This is to Certify that

ABHIVARSHITHA CHOWDARY GUDIPATI

has Successfully Completed IOT, Motion Controlled Robots
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing
with Roll No. 17J41A0163 and Branch CE.


Dr.N.Rishikanth
COE Dean


Principal
Malla Reddy Engineering College
Maddur, Secbad, Dhulapally,
(Post Via Secbad, Secbad-500100)


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

B MRINALINE

has Successfully Completed IOT, Motion Controlled Robots
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing
with Roll No. 17J41A0205 and Branch EEE.

Dr.N.Rishikanth
COE Dean

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

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

DHEVARSHINI REDDY

has Successfully Completed IOT, Motion Controlled Robots
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing
with Roll No. 17J41A1206 and Branch IT.

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Matsyaganuda, Dhulapally,
(Post: V. K. K. Road) Sec'bad-500100

Dr.S.Sudhakara Reddy
Conference Chair &Principal



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION




Certificate Of the Course Completion


This is to Certify that

GUDIPALLI VINAY REDDY

*has Successfully Completed IOT, Motion Controlled Robots
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing
with Roll No. 17J41A0384 and Branch ME.*


Dr.N.Rishikanth
COE Dean


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


Dr.S.Sudhakara Reddy
Conference Chair &Principal



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate Of the Course Completion

This is to Certify that

KAUSHIK ANUMALA

*has Successfully Completed IOT, Motion Controlled Robots
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing
with Roll No. 17J41A2519 and Branch MINING.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Malsamma Guda, Dhulapally,
(Post Via Kompally, Secbad-500100)

Dr.S.Sudhakara Reddy
Conference Chair &Principal