



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 04/07/2018

All the 3rd/I Year/Sem 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 Basic Animations, Green Matte Studio - Audio Effects/Transitions, Software's related to 3D Printing Selection of proper 3D Printing, Advanced JAVA in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 09/07/2018. For further details, please contact Centre of Excellence, MREC(A)

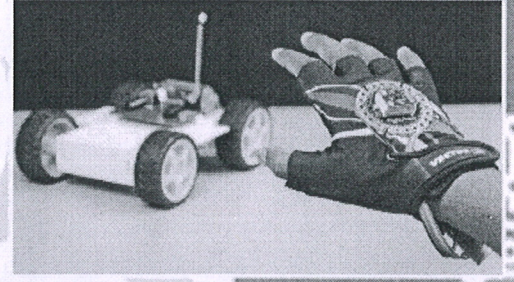
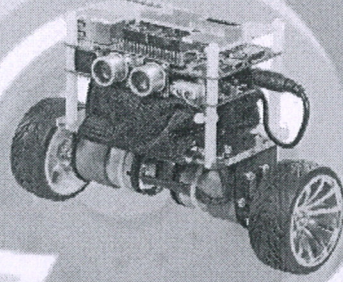
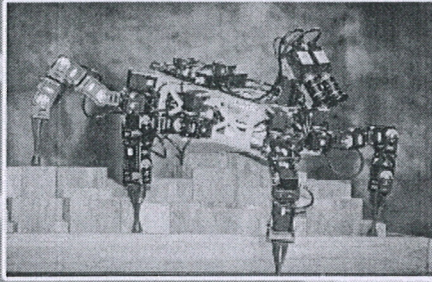
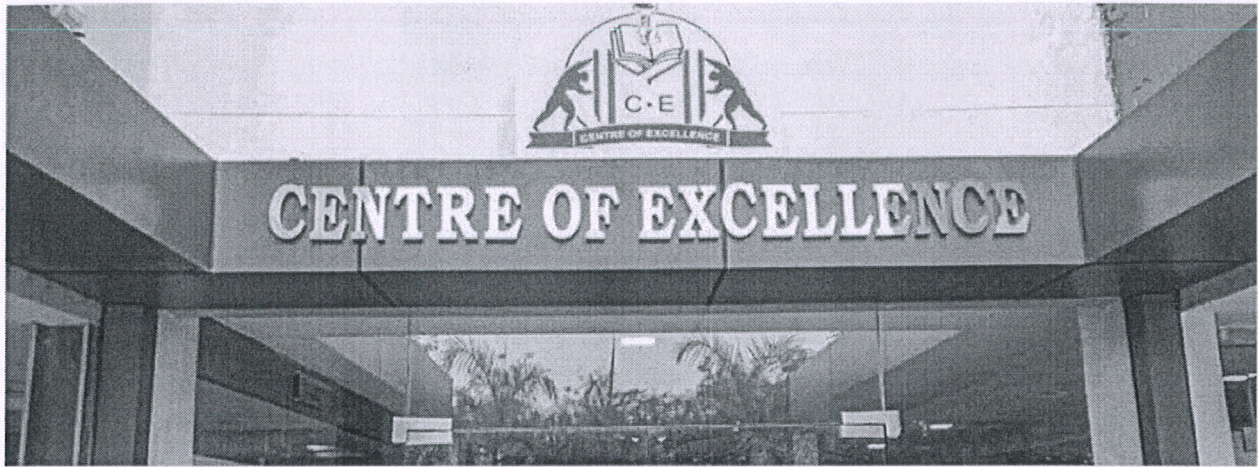
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Principal
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100



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



	MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE	
REMOTE CONTROLLED ROBOTICS		

MODULE-I:RF Communication

Concepts of RF Communication, Frequencies and Frequency Modulations, Types of RF Communication Devices

MODULE-II: Encoder and Decoder

Definitions of Encoder and Decoders, Concepts of HT12E, Pin Diagram, Data and Address Modulations, Connection Diagram, Concepts of HT12D, Pin Diagram, Data and Address Modulations, Connection Diagram

MODULE-III: RF Transmitter and Receiver

RF Transmitter and Receiver, Modules of RF Transmitter and RF receiver, 433Mhz RF Transmitter and Receiver Modules, Connection Diagram

MODULE-IV: RF Communication Robots

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

MODULE-V: Bluetooth Communication

Understanding a Bluetooth Communication robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, Bluetooth Control Robot using Arduino, Research and Development

R. Sreedhar
Principal

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



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

Course: Remote Controlled
Robotics -I & II
Date:09/07/2018 to
10/11/2018

Registered Students

SL.No	Roll No	NAME	BRANCH
1	16J41A0166	BEETLA NIKHIL	CE
2	16J41A0173	EDURUGATLA GOUTHAM	CE
3	16J41A0180	GUDE LALITHADITYA	CE
4	16J41A0184	GURRAM SAI VIKRAM	CE
5	16J41A0193	KONDAM DIVYA	CE
6	16J41A0235	LAMBU VISHNU VARDHAN REDDY	EEE
7	16J41A0240	MD ATIQ	EEE
8	16J41A0247	PENDAM BHARATH	EEE
9	16J41A0255	TAGARAM VEERESH	EEE
10	16J41A0260	VINNAKOTA MADHU MANASA	EEE
11	16J41A0361	AITHA REVANTH	ME
12	16J41A0367	BANDARI MADHU	ME
13	16J41A0373	CHINTAMALLA PRAVEEN KUMAR	ME
14	16J41A0377	DHONDI MILIND	ME
15	16J41A0381	GORLLA NARESH	ME
16	16J41A0387	KANDIKANTI TEJESH GOUD	ME
17	16J41A0389	KARAN SINGH	ME
18	16J41A0391	KHAN SALMAN SERAJ	ME
19	16J41A0464	ARE SAI KRISHNA	ECE
20	16J41A0473	DASARI SAI SWAROOP	ECE
21	16J41A0485	KADIRA ANUSHA	ECE
22	16J41A0489	KANDHULA SAINATH REDDY	ECE
23	16J41A0493	KOKA SITHARAMA RAJU	ECE
24	16J41A0494	MAHAMMAD MUJEEB	ECE
25	16J41A0562	ANUGU RUTHWIK REDDY	CSE
26	16J41A0565	BHAROTHU BINDUMADHAVI	CSE
27	16J41A0569	DONTHOJI SHIVANI	CSE
28	16J41A0576	GOVULA SURESH KOUSHIK	CSE
29	16J41A0584	KENCHAM SHILPA	CSE
30	16J41A0591	MADDINENI DEEPIKA	CSE

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

SUMMARY

Remote Controlled Robotics

A robot that is tele operated (operated from a distance) using any transmitting device, which is usually a remote. These robots are referred to as remote- controlled robots. In this scenario, humans and robots have a direct connection.

Remote controls today have mainly based on these technologies:

- Infrared technology is the most often utilized control method in robotics. An infrared remote, also known as a transmitter, sends messages to a receiver or robot by using infrared light. It correlates to particular binary codes that indicate instructions such as "volume up," "volume down," and so on. The receiver converts infrared light pulses into binary signals.
- Radio frequency technology: Radio waves are used by these remote controllers to send codes through the transmitter. These remotes are used in modern satellite television systems. The robots may be controlled from a distance of more than 100 feet using this kind of remote.
- Speech recognition technology: This is the most difficult to develop, but it is a critical tool for increasing the capacity to communicate with robots. The goal is to evaluate a sentence uttered into a microphone, which is subsequently written down and utilized. There are many APIs available for integrating voice recognition. The 'Say It Module' is one of the most popular applications that makes use of this technology.
- Sound technology: While it may seem to be similar to speech recognition technology, it is not. This is primarily concerned with the frequency of the noises, while the former is concerned with the acoustics of it. Different noises, such as clapping and whistling, may be set to activate the function of certain activities.
- Network technology: As the name implies, it operates the remote through various networks. It may be wired, or the remote could be linked to an Ethernet network. It may also be wireless, such as Wi-Fi, Bluetooth, and so on.

Raveesh
Principal

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



MALLA REDDY ENGINEERING COLLEGE

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Certificate Of the Course Completion

This is to Certify that

KANDHULA SAINATH REDDY

*has Successfully Completed Remote Controlled Robotics -I & II
Course Offered by Centre of Excellence, MREC(A) on 10/11/2018
bearing with Roll No. 16J41A0489 and Branch ECE.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(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

KANDIKANTI TEJESH GOUD

*has Successfully Completed Remote Controlled Robotics -I & II
Course Offered by Centre of Excellence, MRECA on 10/11/2018
bearing with Roll No. 16J41A0387 and Branch ME.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(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

TAGARAM VEERESH

*has Successfully Completed Remote Controlled Robotics -I & II
Course Offered by Centre of Excellence, MREC(A) on 10/11/2018
bearing with Roll No. 16J41A0255 and Branch EEE.*

Dr. Yogesh Madaria
CONVENOR

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

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

BHAROTHU BINDUMADHAVI

*has Successfully Completed Remote Controlled Robotics -I & II
Course Offered by Centre of Excellence, MREC(A) on 10/11/2018
bearing with Roll No. 16J41A0565 and Branch CSE.*

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

GUDE LALITHADITYA

*has Successfully Completed Remote Controlled Robotics -I & II
Course Offered by Centre of Excellence, MRECA on 10/11/2018
bearing with Roll No. 16J41A0180 and Branch CE.*

Dr. Yogesh Madaria
CONVENOR

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

Dr. S. Sudhakara Reddy
Conference Chair & Principal