



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 07/11/2017

All the 3rd/II Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Remote Controlled Robotics -II, Multimedia - 2D & 3D Basic Animations, Green Matte Studio - Audio Effects/Transitions, Anatomy of a 3D Printer, Live demo of 3D Printing, Advanced PYTHON in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 12/11/2017. For further details, please contact Centre of Excellence, MREC(A)

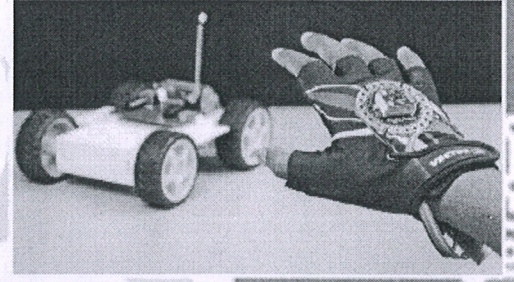
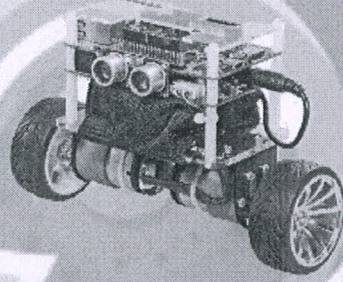
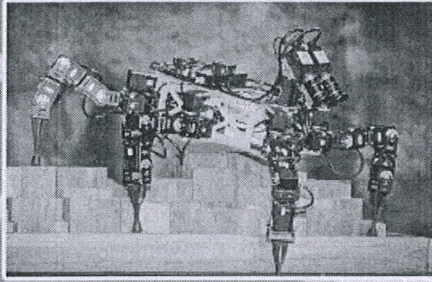
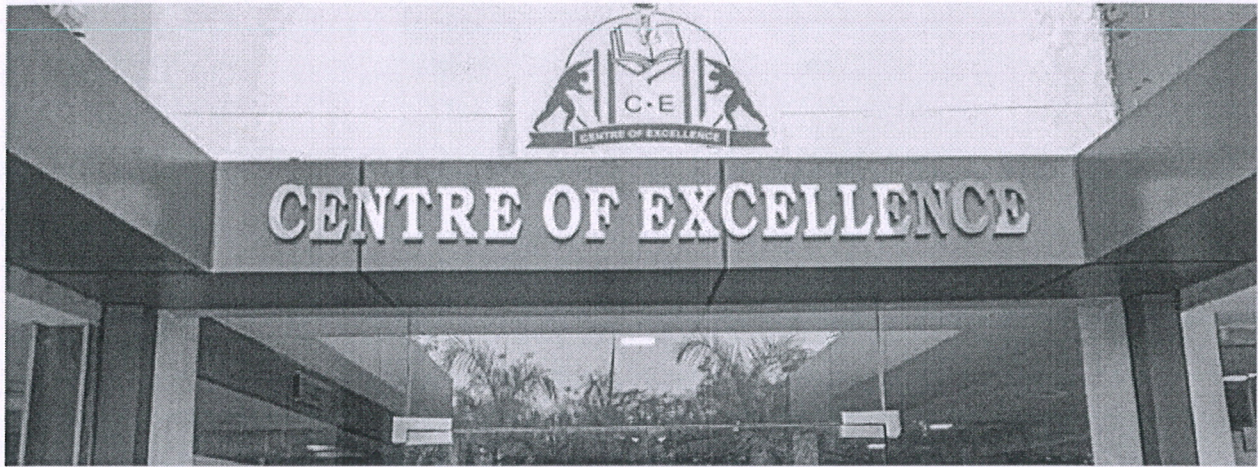
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4. Confidential Section Exam Branch
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8. Security Officer-for necessary action
9. Transport Manager-for necessary action
10. TEQIP Coordinator & Academic Cell
11. Admin Office
12. System Admin
13. Placement Cell
14. PA to Principal for Filling


Principal
Principal
Malla Reddy Engineering College
Malsammaguda, 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



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

Course: Remote Controlled
Robotics -II

Date:12/11/2017 to
07/04/2018

Registered Students

SL.No	Roll No	NAME	BRANCH
1	15J41A01C3	LANJAPALLI JESUDAS	CE
2	15J41A01C7	BOLISHETTY SUNAYANA	CE
3	15J41A01D2	GOPU VISHNU VARDHAN	CE
4	15J41A01E0	KAMMARI HASINI	CE
5	15J41A01F0	MANDALI JALENDER	CE
6	15J41A0221	GOPISHETTI SHIVA KRISHNA	EEE
7	15J41A0225	J DHEERAJ REDDY	EEE
8	15J41A0228	KANDHIMALLA SUPRAJA	EEE
9	15J41A0234	MARTHI PRUDHVI RAJ	EEE
10	15J41A0240	NAMA SRI KAVYA	EEE
11	15J41A03C2	AKASH KASHYAP	ME
12	15J41A03C8	BAIRY RAHUL KUMAR GOUD	ME
13	15J41A03D1	BHAMIDIPATI VENKATA NAGA SAI VIVEK	ME
14	15J41A03D3	BINGI MANOHAR	ME
15	15J41A03D7	BUSSA GOWTHAM	ME
16	15J41A04C3	B KIRAN KALYAN	ECE
17	15J41A04C6	BATTU SANGEETH RAJ	ECE
18	15J41A04D0	CHENNA SHRAVYA	ECE
19	15J41A04D3	CHIRLA SATYA SUBHAKAR REDDY	ECE
20	15J41A04D4	DHARAVATH SARIKA	ECE
21	15J41A2525	KORRA HEMANTH KUMAR	MINING
22	15J41A2528	MACHERLA PRANAV TEJA	MINING
23	15J41A2535	NARRA PRADEEP REDDY	MINING
24	15J41A2538	PALAVAI SAIRAM	MINING
25	15J41A2559	AKHILREDDY PATLOLLA	MINING
26	15J41A05C3	ANUMALLA NITHINRAJ	CSE
27	15J41A05C8	BAVANDLA SAI TEJA	CSE
28	15J41A05D1	BODA HARSHITHA	CSE
29	15J41A05D4	NIMMALA REVANTH REDDY	CSE
30	15J41A05D8	DEGALA DILIP	CSE

Ravinder

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

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Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate Of the Course Completion

This is to Certify that

J DHEERAJ REDDY

*has Successfully Completed Remote Controlled Robotics -II Offered by
Centre of Excellence, MREC(A) on 07/04/2018 bearing with
Roll No. 15J41A0225 and Branch EEE.*

Dr. Yogesh Madaria
CONVENOR

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

Dr. S. Sudhakara Reddy
Conference Chair & Principal



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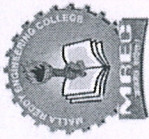
DEGALA DILIP

*has Successfully Completed Remote Controlled Robotics -II Offered by
Centre of Excellence, MREC(A) on 07/04/2018 bearing with
Roll No. 15J41A05D8 and Branch CSE.*

Dr. Yogesh Madaria
CONVENOR

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Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-503100

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

BUSSA GOWTHAM

*has Successfully Completed Remote Controlled Robotics -II Offered by
Centre of Excellence, MREC(A) on 07/04/2018 bearing with
Roll No. 15J41A03D7 and Branch ME.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Dhulapally,
Sammaguda, Sec'bad-500100
(Company), Sec'bad-500100

Dr. S. Sudhakara Reddy
Conference Chair & Principal