

(Autonomous)

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

CIRCULAR

Date: 02/07/2019

All the 3rd /I Sem Year 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 & 3D Basic Animations, Software's related to 3D Printing Selection of proper 3D Printing materials, Advanced MATLAB(MATLB PRO), Advanced JAVA in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 08/07/2019. For further details, please contact Centre of Excellence, MREC(A)

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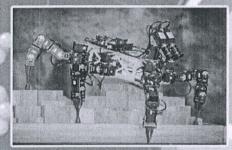
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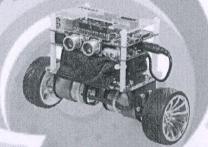


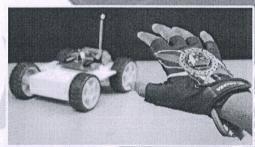
MALLA REDDY ENGINEERING COLLEGE MAIN CAMPUS, AUTONOMOUS INSTITUTION

Maisammaguda, Dhulapally (Post) via Kompally, Secunderabad-500100 Medchal – Malkajgiri District Telangana, India









ROBOTTIC'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.



MALLA REDDY **ENGINEERINGCOLLEGE** (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

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(Autonomous)

Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 Course:Remote
Controlled
Robotics

Date:08/07/2019 to 01/11/2019

Registered Students

SL.No	Roll No	NAME BRANCH		
1.	17J41A0146	ALUR VINITH VITHAL CE		
2.	17J41A0163	ABHIVARSHITHA CHOWDARY	CE	
	17J41A0105	GUDIPATI		
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	

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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.

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Certificate

Of the Course Completion

This is to Certify that ALETI AJAY KUMAR REDDY

has Sucessfully Complete	ed Remote (Controlled Roboti	cs I & II Offered by
Centre of Excellence,	MREC(A)	on01/11/2019	bearing with
Roll No	17J41A0202	and Branch	EEE .

Dr.N.Rishikanth COE Dean Principal

Malla Reddy Engineering College

Maisammaguda, Dhulapally,

Dr.S.Sudhakara Reddy Conference Chair & Principal



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Certificate

Of the Course Completion

This is to Certify that Anmishetty NAGA PRIYA

has Sucessfully Complete	ed Remote (Controlled Robotics	I & II Offered by
Centre of Excellence,			_ bearing with
Roll No.	17J41A1202	and Branch	IT *

Dr.N.Rishikanth

Principal
Principal
Addy Engineering College
Addy Engineering College

In)

Dr.S.Sudhakara Reddy Conference Chair & Principal

(Post Via K



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Certificate

Of the Course Completion

This is to Certify that BANKULLA NEHA REDDY

has Sucessfully Complete	ed Remote (Controlled Robotic	cs I & II Offered by
Centre of Excellence,	MREC(A)	on01/11/2019	bearing with
Roll No	17J41A0403	and Branch	ECE .

Dr.N.Rishikanth COE Dean Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,

Dr.S.Sudhakara Reddy Conference Chair & Principal



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Certificate

Of the Course Completion

This is to Certify that GUNDEMONI VENU GOPAL

has Sucessfully Complete	ed Remote (Controlled Robotic.	s I & II Offered	6y
Centre of Excellence,	MREC(A)	on 01/11/2019	_ bearing with	
Roll No	17J41A03E6	and Branch	ME*	

Dr.N.Rishikanth COE Dean

Principal
Principal
Addy Engineering College
Addy Engineering College

Dr.S.Sudhakara Reddy Conference Chair & Principal



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Certificate

Of the Course Completion

This is to Certify that ALUR VINITH VITHAL

has Sucessfully Complete	ed Remote	Controlled Robotics	s I	LII Offered by
Centre of Excellence				bearing with
Roll No	17J41A0146	and Branch	CE	

Dr.N.Rishikanth

Principal College Ady Engineering College

Dr.S.Sudhakara R

Dr.S.Sudhakara Reddy Conference Chair & Principal

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