

Remote Controlled Robotics -I & II



MALLAREDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 15/08/2020

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, Multimedia - 2D & 3D 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 these Courses online or before 20/08/2020. For further details, please contact Centre of Excellence, MREC(A)

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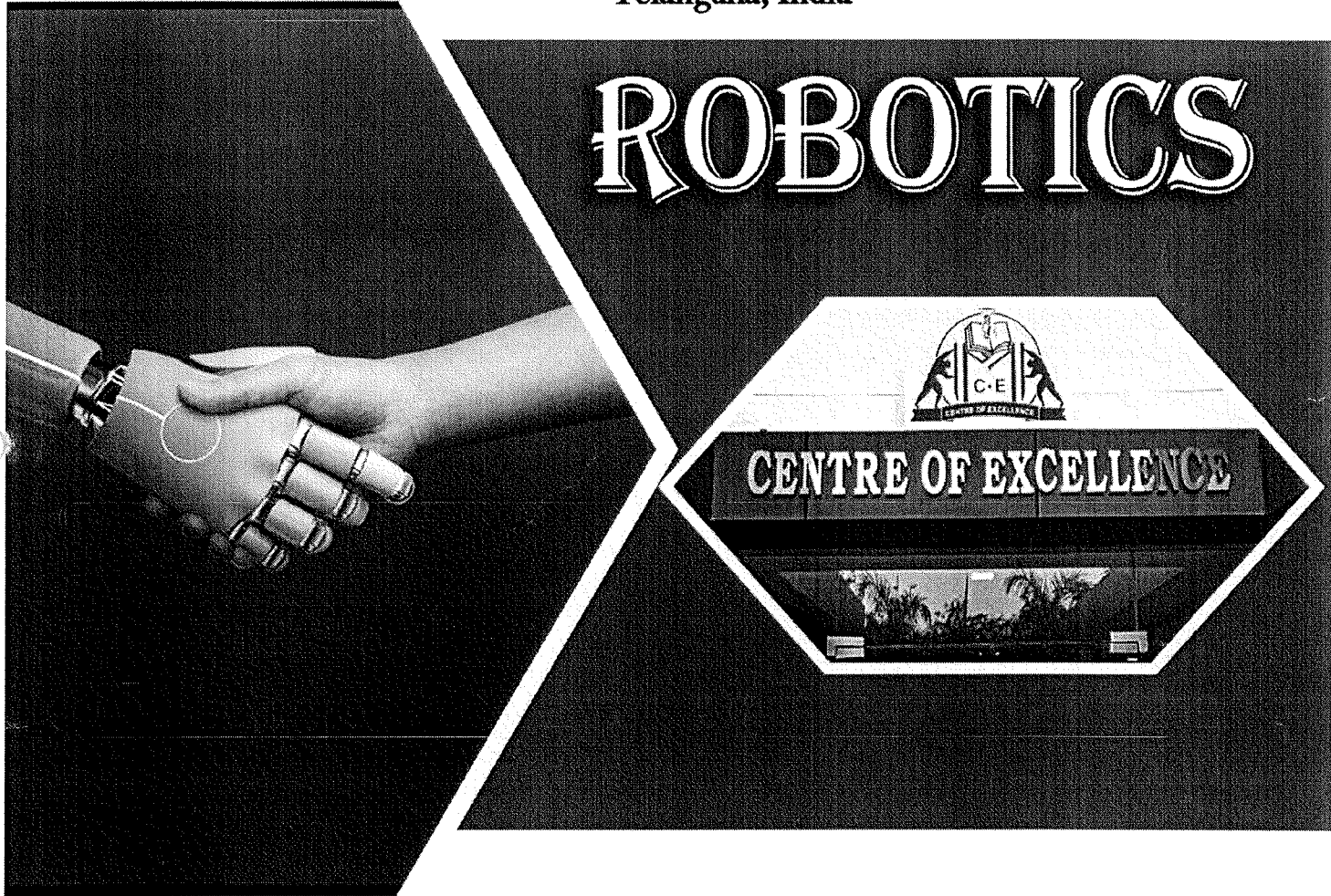
MALLA REDDY ENGINEERING COLLEGE

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Maisammaguda, Dhulapally (Post) via Kompally,

Secunderabad-500100 Medchal - Malkajgiri District


Telangana, India



- **Guide To Build Software Robots, Automate Repetitive Tasks.**
- **Learn Arduino, Design Industrial Robots, Motion Control Robots, Autonomous Robots, IOT, Android Robots, Remote Controlled Robotics.**

Course Duration -: 04 Months

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

Course Code: CFER05

Duration:48 Hours

Course Objective: In this course robots are referred to as remote controlled robots. In this scenario, humans and robots have a direct connection. This course includes the remote communication like RF and Bluetooth communications

Syllabus

UNIT-I:RF Communication

8Hours

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

UNIT-II: Encoder and Decoder

10Hours

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

UNIT-III:RF Transmitter and Receiver

12Hours

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

UNIT-IV:RF Communication Robots

8Hours

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

UNIT-V: Bluetooth Communication

10Hours


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

Course Outcomes:

This course outcomes are referred to design robots with remote communications like RF and Bluetooth communications.

R. Sreedhar

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	MALLA REDDY ENGINEERING COLLEGE (Autonomous) Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100	Course:- Remote Controlled robotics Date:17/08/2020 to 28/01/2020
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Enrolled Students

SL.No	Roll No	NAME	BRANCH
1.	18J41A0156	SUREPALLI PRATHIMA	CE
2.	18J41A0196	KRISHNA REDDY KOPPULA	CE
3.	18J41A0101	A.Pavan kumar	CE
4.	18J41A0102	A.Shruthi	CE
5.	18J41A0103	Amgothu Krishnaveni	CE
6.	18J41A0105	A Ajay kumar reddy	CE
7.	18J41A0106	B.Vivek vardhan	CE
8.	18J41A0107	B.Shilpa	CE
9.	18J41A1201	ALAPATI SIDDHARTHA	IT
10.	18J41A1202	AMGOTH GANESH NAYAK	IT
11.	18J41A1203	APPIREDDY SAI RAM REDDY	IT
12.	18J41A1204	BANDARI GANESH	IT
13.	18J41A1205	BASU VISHNU VARDHAN REDDY	IT
14.	18J41A1206	BEJJANKI VIKAS RAO	IT
15.	18J41A1207	BONIGALA HEMANTH KUMAR	IT
16.	18J41A1208	CHAMAKURA ACHYUTH REDDY	IT
17.	18J41A0201	A.shruthi laya	EEE
18.	18J41A0202	Amani Ambedha	EEE
19.	18J41A0203	Amradi Sowmya	EEE
20.	18J41A0204	Anadla sravani	EEE
21.	18J41A0205	Arugollu Sathish Kumar	EEE
22.	18J41A0207	Burugadda Revati Swapnika	EEE
23.	18J41A0208	B.Berushalam	EEE
24.	18J41A0209	Byreddy Supraja	EEE
25.	18J41A0210	Ch varaprasad	EEE
26.	18J41A0301	AMGOTH HEMANTH	ME
27.	18J41A0302	BAIRU RAJINIKANTH	ME
28.	18J41A0303	BHUKYA VINAY NAYAK	ME
29.	18J41A0304	BODHANAM VARSHITH REDDY	ME
30.	18J41A0305	BOLLAM VARSHAN	ME
31.	18J41A0306	BUDURU LAKSHMI PRASANNA KUMAR REDDY	ME
32.	18J41A0308	CHALLA YESHWANTH	ME
33.	18J41A0309	CHINTAMADKA BHANUTEJA	ME
34.	18J41A0401	Arigela Srinivas	ECE
35.	18J41A0402	Arutla Abhinav Reddy	ECE
36.	18J41A0403	A.Nikitha	ECE
37.	18J41A0404	B.Pavan Kumar	ECE
38.	18J41A0405	B.sravanthi	ECE
39.	18J41A0406	B V V N S.Sai Datta	ECE
40.	18J41A0407	B. Dharani	ECE
41.	18J41A0408	B.Keerthana	ECE
42.	18J41A0409	chilukuri Ishitha	ECE
43.	18J45A2501	ADAPA ASHRITH	MINING
44.	18J45A2502	AKULA GOPINATH	MINING
45.	18J45A2503	AMBILAPU PRINCE	MINING
46.	18J45A2504	BATHINI THARUN RAJ	MINING

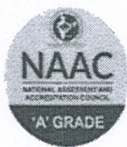
47.	18J45A2505	BOLISHETTI PRANAY	MINING
48.	18J45A2506	CHELIMALLA SAI TEJA	MINING
49.	18J45A2507	CHEVULA PAVAN	MINING
50.	18J45A2508	DUGYALA PRASHANTH	MINING
51.	18J41A05G2	MUTHOJU VASANTH	CSE
52.	18J41A0556	TRISHA VUDEPU	CSE
53.	18J41A05C7	BASHETTI SAITEJA	CSE
54.	18J41A0501	ADLA RAJA REDDY	CSE
55.	18J41A0502	ARE CHAKRI	CSE
56.	18J41A0503	ARUPULA KISHORE	CSE
57.	18J41A0504	BALUSANI SRICHARAN	CSE
58.	18J41A0505	BEJJANKI JYOTHI	CSE
59.	18J41A0506	BHUKYA BALARAJU	CSE
60.	18J41A0507	BIDAR PRANEEL	CSE


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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

SUREPALLI PRATHIMA

has Successfully Completed Remote Controlled Robotics


Course offered by Centre of Excellence,

MREC(A) on 28/01/2021 bearing with

Roll No. 18J41A0156 and Branch CE.

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal


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This is to Certify that

ALAPATI SIDDHARTHA

*has Successfully Completed Remote Controlled Robotics
Course offered by Centre of Excellence,*

MREC(A) on 28/01/2021 bearing with

Roll No. 18J41A1201 and Branch IT.

**N. RISHIKANTH
DEAN (COE)**

**Dr. A. Ravendra
Principal**

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This is to Certify that

ANADLA SRAVANI

*has Successfully Completed Remote Controlled Robotics
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Roll No. 18J41A0204 and Branch EEE.*

**N. RISHIKANTH
DEAN (COE)**

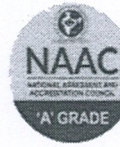
**Dr. A. Ravendra
Principal**

Ravend
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CERTIFICATE OF COURSE COMPLETION

This is to Certify that

BODHANAM VARSHITH

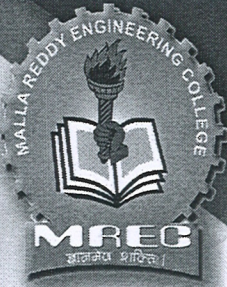
*has Successfully Completed Remote Controlled Robotics
Course offered by Centre of Excellence,*

*MREC(A) on 28/01/2021 bearing with
Roll No. 18J41A0304 and Branch ME.*

**N. RISHIKANTH
DEAN (COE)**

**Dr. A. Ravendra
Principal**

Ravendra
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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

MUTHOJU VASANTH

*has Successfully Completed Remote Controlled Robotics
Course offered by Centre of Excellence,*

*MREC(A) on 28/01/2021 bearing with
Roll No. 18J41A05G2 and Branch CSE.*

N. RISHIKANTH
DEAN (COE)

Dr. A. Ravendra
Principal

Ravend
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