Robotic Process Automation-II

MALLAREDDY ENGINEERING COLLEGE

(Autonomous)

**Maisammaguda(H),
GundlapochampallyVillage,MedchalMandal, Medchal-
MalkajgiriDistrict,Telangana State – 500100**

CIRCULAR

Date: 10/04/2021

All the1st/IIYear/Semstudents are hereby informed that the MallaReddy Engineering College(Autonomous)is planning to organize Value Added Courses like Robotic Process Automation-II, Graphic Designing - II (Corel draw &Indesign), Green Matte Studio - Video Effects/Transitions, BASIC PYTHON Iin Centre Of Excellence.In this regard Interested students are hereby directed toregister for thisCourses in onlineon or before 15/04/2021. For further details, pleasecontact Centre of Excellence, MREC(A)

Principal

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Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100

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11. Admin Office
12. System Admin
13. Placement Cell
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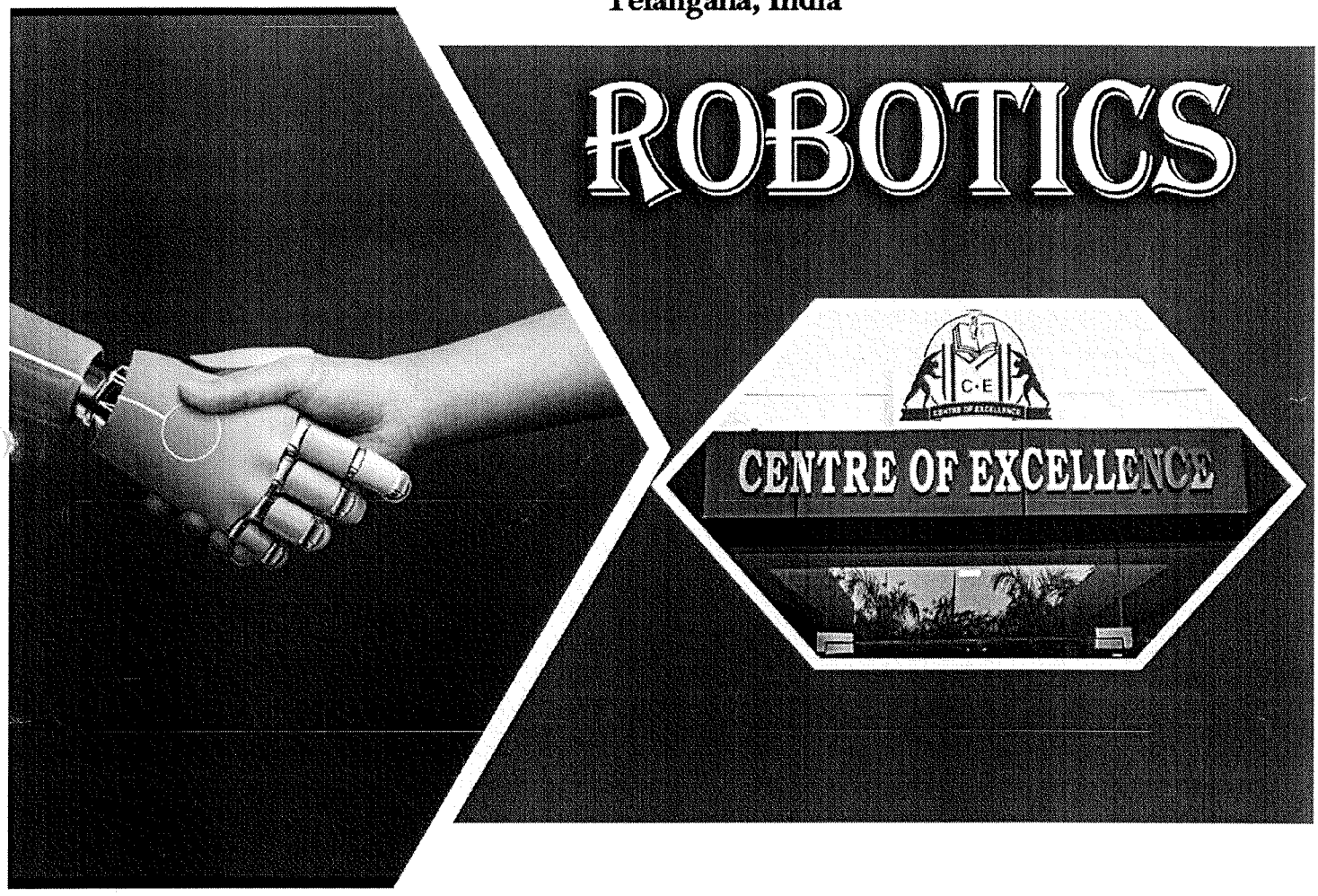
MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100Medchal - 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

	MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE
	ROBOTICS PROCESS AUTOMATION-II

Course Code: CFER02 **Duration:56 Hours**

Course Objective: This course will help you understand how Sensors work and concepts and interfacing concepts of microcontrollers, softwares used in designing robots and programming.

Syllabus

UNIT–I: Sensors and Actuators **10Hours**

Switches & Relays - Configuration & Application, Sensors, Actuators & Motors - Types & Applications, Torque, Speed and Power Relationship, Design of an infrared sensor, a light sensor, and a heat sensor, as well as an understanding of a line follower robot prototype

UNIT–II: Introduction to Microcontroller **12Hours**

Comparative study of Microcontrollers & Microprocessors Prototype, Architecture of Microcontroller Development - RISC and CISC, Arduino microcontroller - pin diagram, port description & functions, Instruction sets of Arduino

UNIT–III: Memory Organization **10Hours**

Memory Organization of Arduino, Number system and conversions, Embedded CProgramming - Loading value to registers

UNIT–IV: Installing Arduino IDE **12Hours**

Introduction to Arduino IDE, Development of basic program in Arduino IDE, Simulation of assembly programs, Introduction to Proteus 8, Simulation of programs in Proteus 8

UNIT–V: Program Compiling **12Hours**

Motor driver L293d interfacing with Arduino, USART, ISP Protocols, Dumping code using Program USB(USART) into Arduino

Course Outcomes:

This course Outcomes include Sensors work and concepts, interfacing concepts of microcontrollers, softwares used in designing robots and programming includes the operation simulation using proteus

Received

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	MALLA REDDY ENGINEERING COLLEGE (Autonomous) Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State – 500100	Course:Robotic Process Automation-II Date:12/04/2021 to 13/09/2021

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	20J41A0101	ALUR VINITH VITHAL	CE
2.	20J41A0105	AMGOTH HIMAJA	CE
3.	20J41A0106	ANTHANNA GARI KARTHIK	CE
4.	20J41A0201	ALEY SHANMUKHA SAI BABA	EEE
5.	20J41A0206	BANOTH HARILAL	EEE
6.	20J41A0204	B S ASHRITH SRIKAR	EEE
7.	20J41A0301	ANKAMALLA AKASH	ME
8.	20J41A0305	BANOTHU GANESH	ME
9.	20J41A0306	BEGARI SHARATH KUMAR	ME
10.	20J41A0401	ADEPU BHAVANA	ECE
11.	20J41A0402	AITHAM SAI VIGNESH	ECE
12.	20J41A0406	BANGARU AKSHITHA	ECE
13.	20J41A1201	ARADHYULA SHASHANK	IT
14.	20J41A1203	ASOLLA ROHAN	IT
15.	20J41A1204	ATUL KR SINGH	IT
16.	20J41A0501	ABDUL SHOYEAB ASLAM	CSE
17.	20J41A0502	ANAGANDULA PRANAY VARDHAN	CSE
18.	20J41A0503	ANCHETI ROHITH	CSE
19.	20J41A6601	ADDULA SHASHIDHAR REDDY	AIML
20.	20J41A6605	ANANTHANENI MOUNIKA	AIML
21.	20J41A6606	AVUNOORI RAJEEV	AIML
22.	20J41A6201	ALAVALAPATI NAGA SAI SIVA VARUN	CS
23.	20J41A6204	BACHHANNAGARI ANKITHA	CS
24.	20J41A6205	BADANA TARUN KUMAR	CS
25.	20J41A6705	ANANTHULA BHAVANA	DS
26.	20J41A6706	ANUPAM KUMAR GAURAV	DS
27.	20J41A6703	AKSHAY M	DS
28.	20J41A6905	APPALA PRANAY	IOT
29.	20J41A6903	ANANTHU CHARAN TEJA	IOT
30.	20J41A6904	ANUMOLU SAI	IOT
31.	20J41A0139	MANDHA SAITEJA	CE
32.	20J41A0140	MOHAMMED RAFI UDDIN	CE
33.	20J41A0141	MUNNURI SRIKANTH	CE
34.	20J41A0142	NAGINENI KARTHIK	CE
35.	20J41A0143	NANDIWADA SAI VENKAT	CE
36.	20J41A0239	POLICE PRASHANTH KUMAR	EEE
37.	20J41A0246	ASHWITA RUDRARAF	EEE
38.	20J41A0241	UTHKAM PAVAN GOUD	EEE
39.	20J41A0244	A VEERA BASAVAIAH	EEE
40.	20J41A0243	VEMPATI SIDDHARTHA	EEE
41.	20J41A0375	MODUGULA SRAVAN KUMAR	ME
42.	20J41A0383	PINREDDY LOKESH REDDY	ME
43.	20J41A0377	MOLUGURI ANURUTH CHANDRA SAI	ME
44.	20J41A0378	NAKAM DHANUNJAI	ME
45.	20J41A0381	PALADUGU THIMOTHY	ME
46.	20J41A0380	NELLI ARUN	ME

47.	20J41A0497	MYGAPU REVANTH	ECE
48.	20J41A0498	NALLAMOTHU POORNA KRISHNA SAIRAM	ECE
49.	20J41A0499	NADAGOUNI AJAY KUMAR REDDY	ECE
50.	20J41A04A4	NITYA ROSHINI P	ECE
51.	20J41A04A1	NAIK JAHNAVI	ECE
52.	20J41A0594	MOHAMMED SADIK	CSE
53.	20J41A0595	MACHUNURU NITHIN REDDY	CSE
54.	20J41A0596	N SAI TEJA	CSE
55.	20J41A05A1	NETHIGUNTLA SHIVA JAYANTH	CSE
56.	20J41A1214	GANGULA SREENITH	IT
57.	20J41A1220	KOPPINENI CHARAN RAHUL	IT
58.	20J41A6627	KATIKEY REVATHI RUCHITHA	AIML
59.	20J41A6915	JEJALA NAGAVAMSHI	CSE-IOT
60.	20J41A6918	K KARTHIKEYA	CSE-IOT

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Zoom Meeting Participant ID: 268774 40-Minutes
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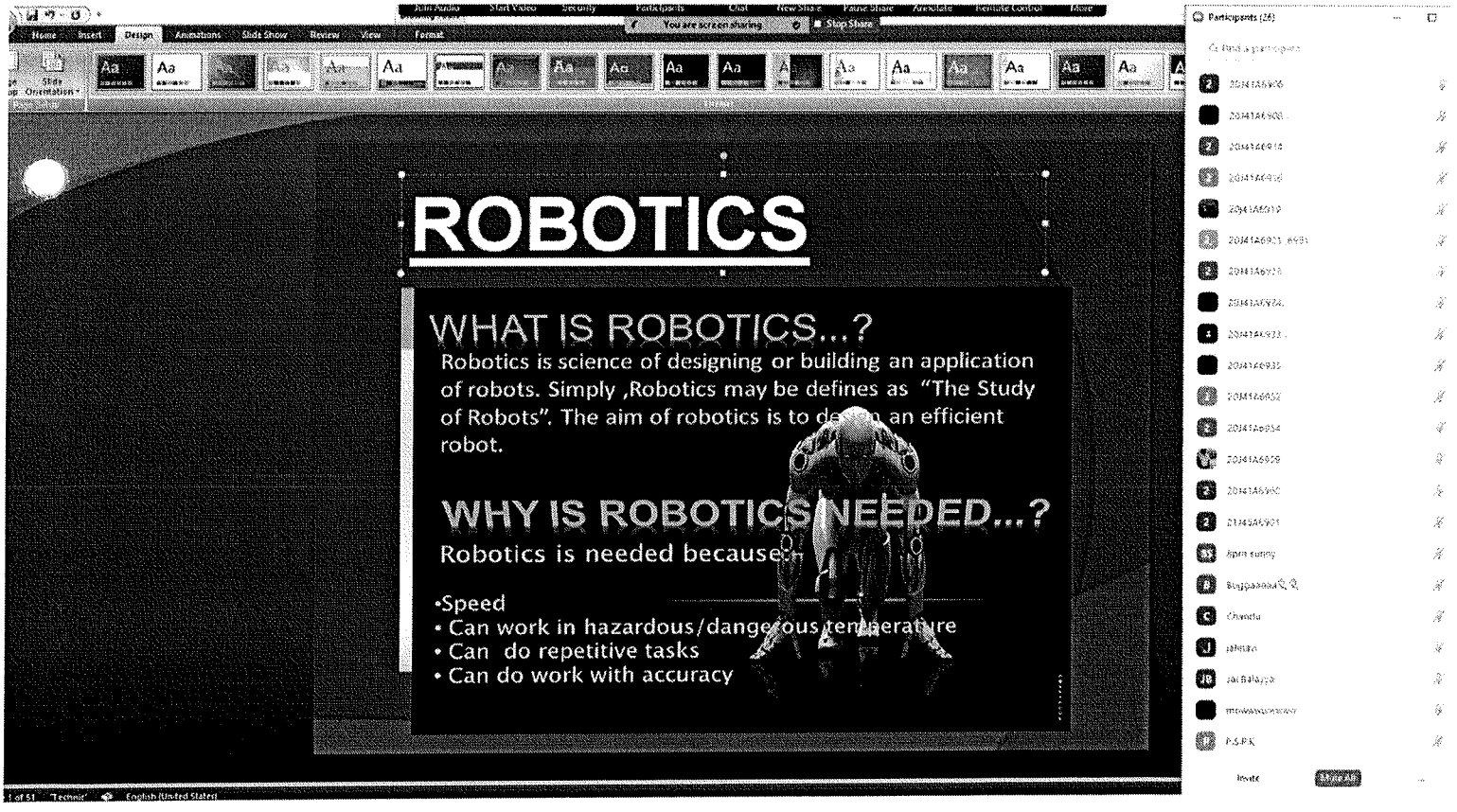
20J41A6940
20J41A6901
20J41A6916
Abdul Razzaq
20J41A6954
20J41A6922
harshith vytla
20J41A6917
Participants (30)
Join Audio
Start Video
Security
Participants
Chat
Share Screen
Record
Reactions
End


ROBOTICS
WHAT IS ROBOTICS...?
Robotics is science of designing or building an application of robots. Simply ,Robotics may be defines as "The Study of Robots". The aim of robotics is to de an efficient robot.
WHY IS ROBOTICS NEEDED...?
Robotics is needed because:
•Speed
• Can work in hazardous/dangerous temperature
• Can do repetitive tasks
• Can do work with accuracy
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Participants (28)

MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS AUTONOMOUS INSTITUTION

'A' GRADE

CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

BANOTH HARILAL

has Sucessfully Completed Robotic Process Automation II
Course offered by Centre of Excellence, MREC(A)
on 12/09/2021 *bearing with*
Roll No. 20J41A0206 *and Branch* EEE .

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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(Post Via Kompally), Secunderabad-500 100

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CERTIFICATE

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This is to Certify that

ARADHYULA SHASHANK

has Sucessfully Completed Robotic Process Automation II
Course offered by Centre of Excellence, MREC(A)
on **12/09/2021** *bearing with*
Roll No. **20J41A1201** *and Branch* **IT** .

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DEAN (COE)

Dr.A.Ravendra
Principal

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This is to Certify that

BACHHANNAGARI ANKITHA

has Sucessfully Completed Robotic Process Automation II
Course offered by Centre of Excellence, MREC(A)
on 12/09/2021 *bearing with*
Roll No. 20J41A6204 *and Branch* CS .

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DEAN (COE)

Dr.A.Ravendra
Principal

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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

ANUMOLU SAI

has Sucessfully Completed Robotic Process Automation II
Course offered by Centre of Excellence, MREC(A)
on **12/09/2021** *bearing with*
Roll No. **20J41A6904** *and Branch* **IOT** .

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DEAN (COE)

Dr.A.Ravendra
Principal

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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

K KARTHIKEYA

has Sucessfully Completed Robotic Process Automation II
Course offered by Centre of Excellence, MREC(A)
on **12/09/2021** *bearing with*
Roll No. **20J41A6918** *and Branch* **CSE-IOT** .

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DEAN (COE)

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