

# Autonomous Robotics



# MALLAREDDY ENGINEERING COLLEGE

(Autonomous)

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

## CIRCULAR

Date: 28/08/2020

All the 2<sup>nd</sup>/I Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Autonomous Robotics, Graphic Designing - I & II, Green Matte Studio - Audio Effects & Transitions, Design for Additive Manufacturing (Introduction to 3D Modeling), Data Science With R Programming, Foundations Of JAVA in Centre Of Excellence. In this regard Interested students are hereby directed to register for these Courses in online or before 05/09/2020. For further details, please contact Centre of Excellence, MREC(A)

  
Principal

**PRINCIPAL**  
**Malla Reddy Engineering College**  
**(Autonomous)**  
**Maisammaguda, Dhulapally,**  
**(Post Via Kompally), Sec'bad-500 100**

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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



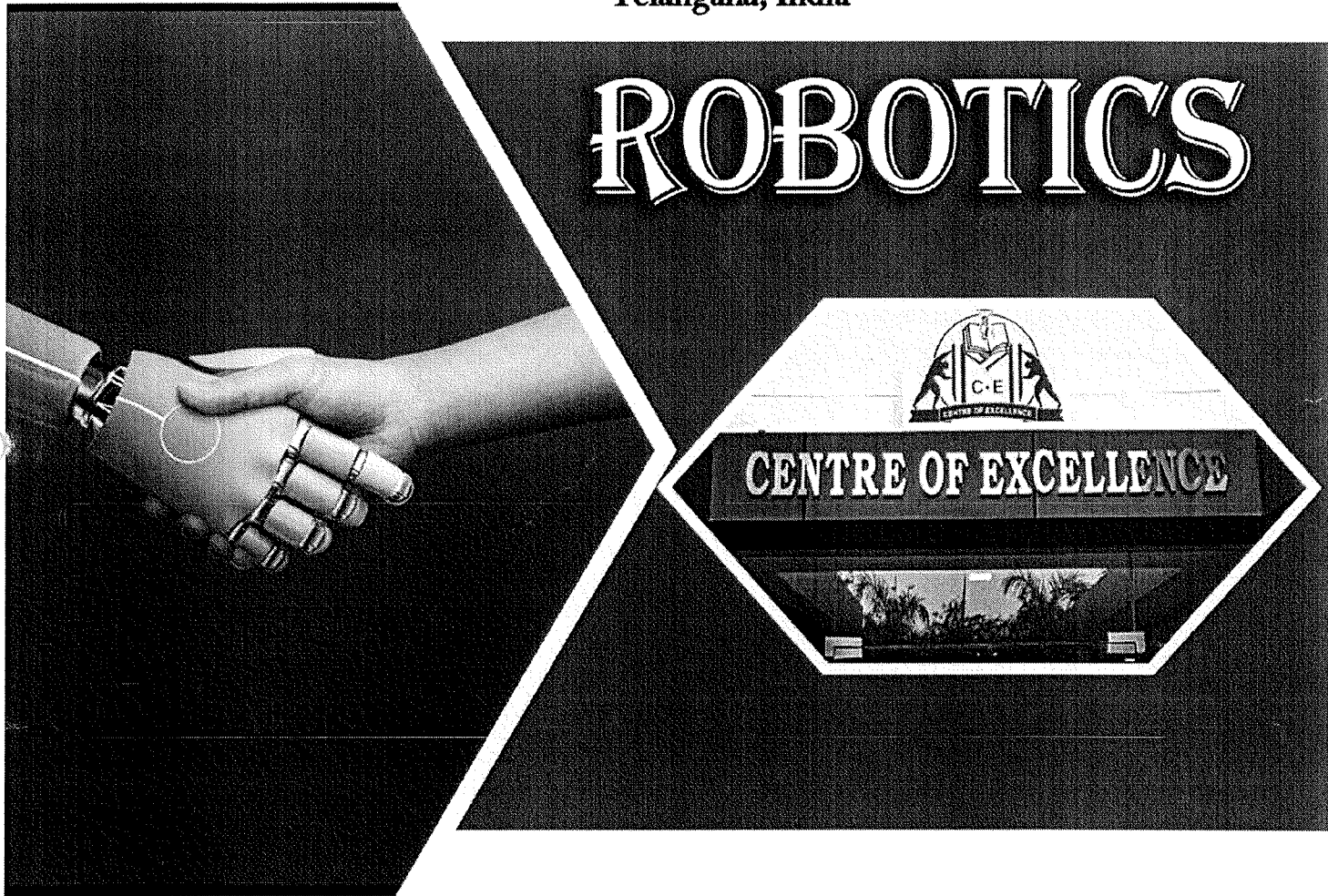
# **MALLA REDDY ENGINEERING COLLEGE**

**MAIN CAMPUS, AUTONOMOUS INSTITUTION**

**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**

	<p style="text-align: center;"><b>MALLA REDDY ENGINEERING COLLEGE</b> (Autonomous) <b>CENTRE OF EXCELLENCE</b> <b>AUTONOMOUS ROBOTICS</b></p>
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**Course Code:** CFER03

**Duration:** 52 Hours

**Course Objective:** This course will help you understand how to design a autonomous robotics in this we construct robots which operates autonomously, Also study about different type of sensors

**UNIT-I: Line follower Robot**

**10Hours**

Understanding a line follower robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development ,Line follower Robot usingArduino, Research and Development

**UNIT-II: Light follower robot using Arduino**

**10Hours**

Understanding a light follower robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, light follower Robot usingArduino, Research and Development

**UNIT-III: Obstacle Avoidance Robot using Arduino**

**12Hours**

Understanding a Obstacle Avoidance robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, Obstacle Avoidance Robot usingArduino, Research and Development

**UNIT-IV: Edge Follower Robot using Arduino**

**10Hours**

Understanding a Edge Follower robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, Edge Follower Robot usingArduino, Research and Development

**UNIT-V: Heat Follower Robot using Arduino**

**10Hours**

Understanding a Heat Follower robot, Sensors Structure, Algorithm, Line Diagram, Schematics Prototype Development, Heat Follower Robot usingArduino, Research and Development

**Course Outcomes:**

This Course of autonomy allows the workforce to outsource boring, hazardous, or filthy duties to the robot, allowing them to spend more time performing the fascinating, engaging, and important aspects of their job for which they are uniquely suited.

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

Course: Autonomous  
Robotics-I

Date:01/09/2020 TO  
01/02/2021

Enrolled Students

SL.No	Roll No	NAME	BRANCH
1.	19J41A0101	ABDUL RAHMAN BIN RIYAZ KHAN	CE
2.	19J41A0102	ADULLA SAI KIRAN REDDY	CE
3.	19J41A0103	AGGU SRAVYA	CE
4.	19J41A0104	AMBERI VISHWANATH	CE
5.	19J41A0105	ANGOTHU NAVEEN	CE
6.	19J41A0106	ANUJ ROY	CE
7.	19J41A0107	ARE ABHINAV	CE
8.	19J41A0108	BAGANAGARI DHANUSH GOUD	CE
9.	19J45A1201	CH YOGESH CHOWDARY	IT
10.	19J45A1202	K SAI PRANAY	IT
11.	19J45A1203	SAI DEEPAK	IT
12.	19J45A1204	N. ASHISH	IT
13.	19J45A1205	N MANOJ	IT
14.	19J45A1206	T PREM TEJA	IT
15.	19J41A1201	A MANASA	IT
16.	19J41A1202	A RUSHI	IT
17.	19J41A0201	A.RAJU	EEE
18.	19J41A0202	A.PRASHANTH	EEE
19.	19J41A0203	B.PRANITHA	EEE
20.	19J41A0204	B.SHIVATEJA	EEE
21.	19J41A0205	B.SAI	EEE
22.	19J41A0206	B.K.CHETAN	EEE
23.	19J41A0207	B.VARSHA	EEE
24.	19J41A0208	B.SATHISH	EEE
25.	19J41A0209	B.SANDEEP	EEE
26.	19J41A0301	AAKASH BHAGAVATHULA	ME
27.	19J41A0302	AKULA NITHISH	ME
28.	19J41A0303	ALLIPURAM SRIKANTH	ME
29.	19J41A0304	ANGOTHU BHARATH KUMAR	ME
30.	19J41A0305	ANKIT VARMA	ME
31.	19J41A0306	ANUGULA SRAVAN KUMAR	ME
32.	19J41A0307	ARUN NAIK KATROTH	ME
33.	19J41A0308	BADAVATH PREM KUMAR	ME
34.	19J41A0401	A NAVEEN	ECE
35.	19J41A0402	ALETI SRAVYA REDDY	ECE
36.	19J41A0403	AMBALLA SRIHARSHITHA	ECE
37.	19J41A0404	AMBATI HARSHAVARDHINI	ECE
38.	19J41A0405	APOORVA BAIRI	ECE
39.	19J41A0406	BADAM NAVEEN VENKAT	ECE
40.	19J41A0407	BANDI PRIYANKA	ECE
41.	19J41A0408	BANOTH CHAKRI	ECE
42.	19J41A0409	BHUKYA RAJENDER	ECE
43.	19J45A2501	ANUGANDLA DINESH KUMAR	MINI NG
44.	19J45A2502	BATHINI VIJAY KUMAR	MINI NG
45.	19J45A2503	CHANDRAMMAGARI PAVAN KUMAR	MINI NG
46.	19J45A2504	DAVERA JAYAKRISHNA	MINI NG
47.	19J45A2505	GUDALA AJAY	MINI NG
48.	19J45A2506	KAPU SURYA VAMSHI	MINI NG
49.	19J45A2507	KARRE MANIKANTASHIVAPRASAD	MINI NG
50.	19J45A2508	KATAKAM SAI TEJA	MINI NG
51.	19J41A0501	ABHIGNA CHOWDARY K V L	CSE
52.	19J41A0502	ABHINAV VENGALA	CSE



53.	19J41A0503	ADEPU UJWALA	CSE
54.	19J41A0504	ANNAPUREDDY SAI PRASANNA	CSE
55.	19J41A0505	AVANCHA MARKANDESHWAR RAO	CSE
56.	19J41A0506	BADDE MAYURI	CSE
57.	19J41A0507	BALA THANUSH REDDY BHUMI REDDY	CSE
58.	19J41A0508	BANJA ASHITHA	CSE
59.	19J41A0509	BANNELA ROHITH	CSE
60.	19J41A0510	BHARATH BURUGU	CSE

*Handwritten signature*  
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 Malla Reddy Engineering College  
 (Autonomous)  
 Maisammaguda, Dhulapally,  
 (Post Via Kompally), Sec'bad-500 100



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# CERTIFICATE

OF COURSE COMPLETION

*This is to Certify that*

**ABDUL RAHMAN BIN RIYAZ KHAN**

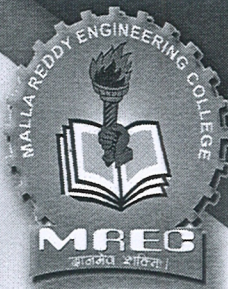
*has Successfully Completed Autonomous Robotics Course  
offered by Centre of Excellence, MREC(A) on 01/02/2021  
bearing with Roll No. 19J41A0101 and Branch CE.*

**N. RISHIKANTH  
DEAN (COE)**

**Dr. A. Ravendra  
Principal**

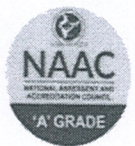
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## CERTIFICATE

OF COURSE COMPLETION

*This is to Certify that*

**A MANASA**

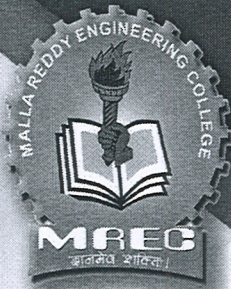
*has Successfully Completed Autonomous Robotics Course  
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**N. RISHIKANTH  
DEAN (COE)**

**Dr. A. Ravendra  
Principal**

**PRINCIPAL**  
Malla Reddy Engineering Co.  
(Autonomous)  
Malsammaguda, Dhalapally,  
(Post Via Kompally), Sec 8-800 100





# MALLA REDDY ENGINEERING COLLEGE

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## CERTIFICATE

OF COURSE COMPLETION

*This is to Certify that*

**ALLIPURAM SRIKANTH**

*has Successfully Completed Autonomous Robotics Course  
offered by Centre of Excellence, MREC(A) on 01/02/2021  
bearing with Roll No. 19J41A0303 and Branch ME.*

**N. RISHIKANTH  
DEAN (COE)**

**Dr. A. Ravendra  
Principal**

**PRINCIPAL**  
Malla Reddy Engineering College  
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(Post Via Kompally), Sec'bad-500 100





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## CERTIFICATE

OF COURSE COMPLETION

*This is to Certify that*

**GUDALA AJAY**

*has Successfully Completed Autonomous Robotics Course  
offered by Centre of Excellence, MREC(A) on 01/02/2021  
bearing with Roll No. 19J45A2505 and Branch MINING.*

**N. RISHIKANTH  
DEAN (COE)**

**Dr. A. Ravendra  
Principal**

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## CERTIFICATE

OF COURSE COMPLETION

*This is to Certify that*

**BANNELA ROHITH**

*has Successfully Completed Autonomous Robotics Course  
offered by Centre of Excellence, MREC(A) on 01/02/2021  
bearing with Roll No. 19J41A0509 and Branch CSE.*

**N. RISHIKANTH  
DEAN (COE)**

**Dr. A. Ravendra  
Principal**

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**Malla Reddy Engineering College**  
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