



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 13/12/2018

All the 2nd /II Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Autonomous Robotics -II, Multimedia - 2D & 3D Basic Concepts, Green Matte Studio - Video Effects/Transitions, Different Technologies of Additive Manufacturing, Python with DJANGO, Foundations Of Blockchain, Labview in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 17/12/2018. For further details, please contact Centre of Excellence, MREC(A)


Principal

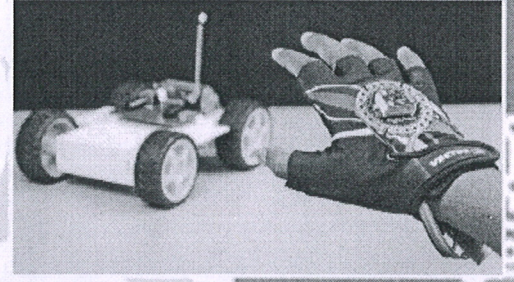
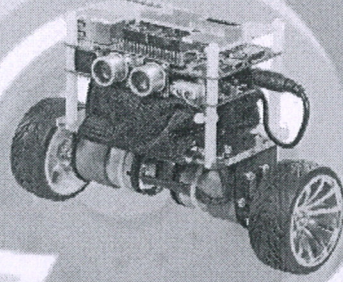
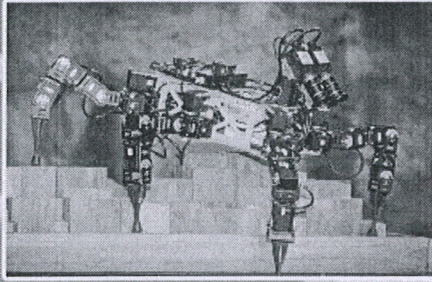
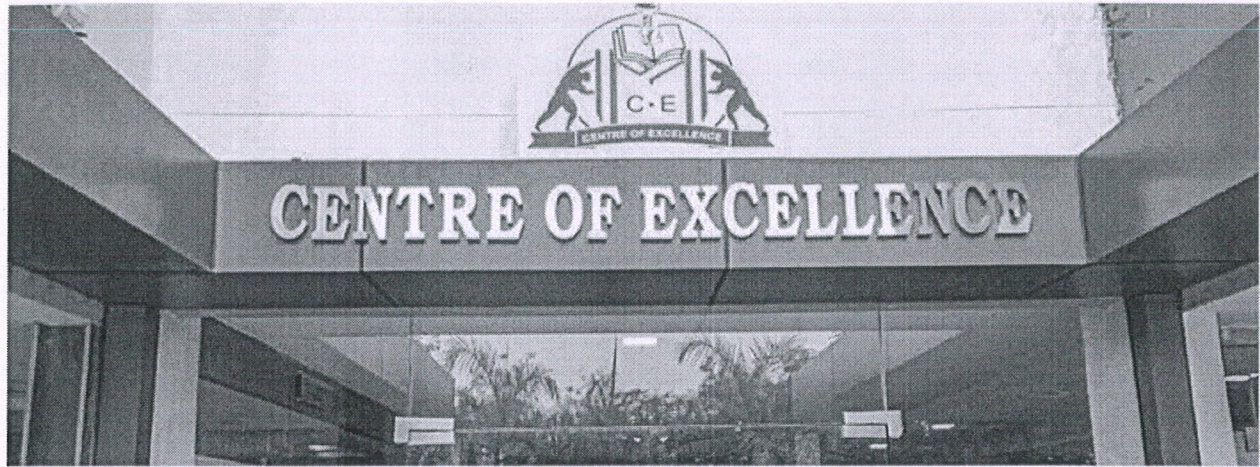
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

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9. Transport Manager-for necessary action
10. TEQIP Coordinator & Academic Cell
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-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	
AUTONOMOUS ROBOTICS		

MODULE-I: Line follower Robot

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

MODULE-II: Light follower robot using Arduino

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

MODULE-III: Obstacle Avoidance Robot using Arduino

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

MODULE-IV: Edge Follower Robot using Arduino

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

MODULE-V: Heat Follower Robot using Arduino

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

R. Reddy
Principal

**Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100**



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(Autonomous)
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Medchal Mandal, Medchal-Malkajgiri District,
Telangana State - 500100

Course:Autonomous Robotics -II

Date:17/12/2018 to 13/04/2019

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	17J41A0165	B RAMU NAIK	CE
2.	17J41A0175	CHALLA RAJU	CE
3.	17J41A0188	GUGULOTHU YAMUNA	CE
4.	17J41A0191	K N S NITESH	CE
5.	17J41A1240	POCHUGARI PAVAN KALYAN REDDY	IT
6.	17J41A1247	RAAVI LOKESH	IT
7.	17J41A1253	SHIVAM ZANWAR	IT
8.	17J41A1237	NUNE SAI KIRAN	IT
9.	17J41A1243	POOJA HOTKER	IT
10.	17J41A0244	NOMA ZAREEN	EEE
11.	17J41A0250	SAINI SAI PREETHAM	EEE
12.	17J41A0235	MOHAMMAD ABDUL SUMAIR MUSTHAF	EEE
13.	17J41A0240	NADIPELLI RAHUL RAO	EEE
14.	17J41A0364	AVADUTHA SURAJ	ME
15.	17J41A0369	BHARGAVA RACHAKATLA	ME
16.	17J41A0376	CHAKKAPALLY KIRAN KUMAR	ME
17.	17J41A0383	GANGULA SAIKIRAN REDDY	ME
18.	17J41A0389	KODETI SUNDEEP	ME
19.	17J41A0465	BOGGULA CHAKRADHAR REDDY	ECE
20.	17J41A0472	CHEEKATLA BHANU SHIVA SAI KIRAN	ECE
21.	17J41A0478	ERELLI HARISH	ECE
22.	17J41A0487	KHAITAN UTTAM	ECE
23.	17J41A0491	KORUTLA SRIKANTH	ECE
24.	17J41A2544	THATIPAMULA SHIVA SAI	MINING
25.	18J45A2518	MITTA NAVEENKUMAR	MINING
26.	17J41A0561	ANDE RAMYA SRI	CSE
27.	17J41A0583	GOWARAVARAPU AKHIL KUMAR	CSE
28.	17J41A0585	JETTY JYOTHSNA	CSE
29.	17J41A0591	KOTHAPALLY AKSHITHA	CSE
30.	17J41A0599	NAGOLU MANASA	CSE

Raveesh

Principal
Malla Reddy Engineering College
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SUMMARY

Autonomous Robotics

Autonomous robots, like humans, have the capacity to make their own decisions and then behave accordingly. A fully autonomous robot can detect its surroundings, make decisions based on what it sees or has been taught to recognize situations, and then perform a movement or manipulation within that environment. In terms of robot mobility, for example, these decision-based activities include, but are not limited to, fundamental tasks such as starting, stopping, and maneuvering around obstacles in their path.

The capacity to make your own choices is referred to as autonomy. In humans, autonomy enables us to do the most significant, as well as useless, activities. Walking, chatting, waving, opening doors, pressing buttons, and replacing light bulbs are all examples of this. Autonomy is no different in robots.

Autonomous robots, like humans, have the capacity to make their own choices and then act on those decisions. A fully autonomous robot is one that can sense its surroundings, make choices based on what it sees, and/or has been programmed to identify circumstances and then act on them within that environment. In terms of robot mobility, for example, these decision-based activities include, but are not limited to, fundamental tasks such as starting, halting, and navigating around obstacles.

True autonomous robots are intelligent devices that can execute tasks and function in an environment without human involvement or control. This degree 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.


Principal

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MALLA REDDY ENGINEERING COLLEGE

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Certificate Of the Course Completion

This is to Certify that

GANGULA SAIKIRAN REDDY

*has Successfully Completed Autonomous Robotics -II Course Offered
by Centre of Excellence, MREC(A) on 13/04/2019 bearing
with Roll No. 17J41A0383 and Branch ME.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

Dr. S. Sudhakara Reddy
Conference Chair & Principal



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Certificate Of the Course Completion

This is to Certify that

KOTHAPALLY AKSHITHA

*has Successfully Completed Autonomous Robotics -II Course Offered
by Centre of Excellence, MREC(A) on 13/04/2019 bearing
with Roll No. 17J41A0591 and Branch CSE.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
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Dr. S. Sudhakara Reddy
Conference Chair & Principal



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Certificate Of the Course Completion

This is to Certify that

SAINI SAI PREETHAM

*has Successfully Completed Autonomous Robotics -II Course Offered
by Centre of Excellence, MREC(A) on 13/04/2019 bearing
with Roll No. 17J41A0250 and Branch EEE.*

Dr. Yogesh Madaria
CONVENOR

Principal
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Dr. S. Sudhakara Reddy
Conference Chair & Principal



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Certificate Of the Course Completion

This is to Certify that

THATIPAMULA SHIVA SAI

*has Successfully Completed Autonomous Robotics -II Course Offered
by Centre of Excellence, MREC(A) on 13/04/2019 bearing
with Roll No. 17J41A2544 and Branch MINING.*

Dr. Yogesh Madaria
CONVENOR

Principal
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Dr. S. Sudhakara Reddy
Conference Chair & Principal



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MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate Of the Course Completion

This is to Certify that

B RAMU NAIK

*has Successfully Completed Autonomous Robotics -II Course Offered
by Centre of Excellence, MREC(A) on 13/04/2019 bearing
with Roll No. 17J41A0165 and Branch CE.*

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

Dr. S. Sudhakara Reddy
Conference Chair & Principal