

**AERO MECHATRONICS COLLEGIATE  
CLUB**





# **AERO MECHATRONICS COLLEGIATE CLUB**

**Mission:** AERO MECHATRONICS COLLEGIATE CLUB facilitates meaningful involvement, student engagement and leadership development, which enable all students to contribute technically to a global society.

**Vision:** AERO MECHATRONICS COLLEGIATE CLUB will foster an environment that cultivates student learning through national competition, leadership experiences, and services to help promote student success.

Aero Mechatronics Collegiate Club Coordinators:

- **J Rangasai Manoj (Primary Coordinator)**
- **Shoyab (Secondary Coordinator)**
- **Vamsi**
- **Leela Madhava Reddy**
- **C Madhu Sudhan**
- **Shalini**

**Faculty Advisor:**

Manu Ravuri  
Assistant Professor  
Dept. of ME

# Summary

<b>Academic Year</b>	<b>Event Details</b>
<b>2019-2020</b>	<ol style="list-style-type: none"><li>1. INAUGRATION OF AMCC (Aero Mechatronics Collegiate Club)</li><li>2. Workshop on robotics &amp; IOT.</li><li>3. E-Yantra Robotics Competition.</li><li>4. E-Yantra Idea Competition.</li></ol>
<b>2020-2021</b>	<ol style="list-style-type: none"><li>1. Robo race.</li><li>2. Robo soccer.</li><li>3. Workshop on advanced IOT.</li><li>4. Tech fest.</li></ol>
<b>2021-2022</b>	<ol style="list-style-type: none"><li>1. Online Webinar (Robo Ignitors -2k21)</li><li>2. Online webinar on road map to Machine learning in collaboration with coding Ninjas</li></ol>

2/2/21



# EVENTS

## AY 2021-2022

1. Robo Ignitors-2K21
2. A webinar on road map to machine leering









A Webinar on

# Road Map to Machine Learning

Organised on 27-06-2021

**Report:**

A webinar organized on road map to Machine Learning in Collaboration with Coding Ninjas on 27-06-2021. AMCC-SAC has collaboration with the best coding platform Coding Ninjas, which they are coming up with new schedules to empower students technically strong. This webinar is successfully organized with the Guest Dr. Athar Samina Khan. This webinar dealt with bringing up students by showing the finest way to build their career in World's most emerging technology Machine Learning, and also sharing their experience in the vast domain.

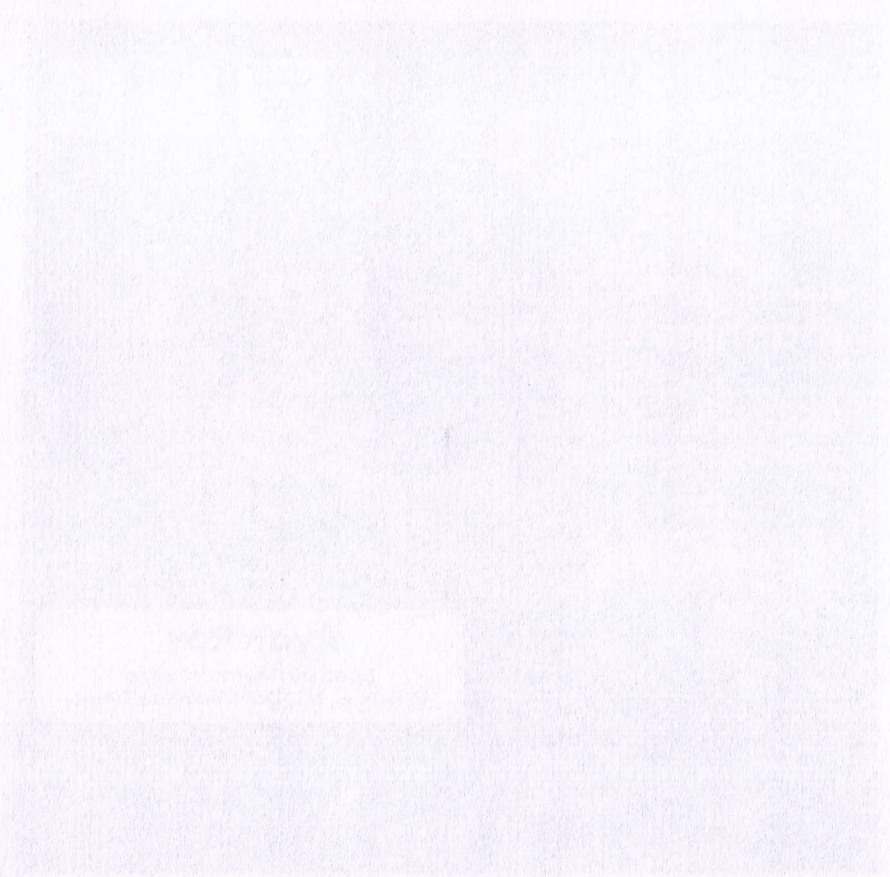
The poster is for a webinar titled "Roadmap to Machine Learning". It features the Coding Ninjas logo at the top left and three institutional logos (AMCC, Madanapalle Institute of Technology & Science, and another) at the top right. The text on the poster includes "WEBINAR on ROADMAP TO Machine Learning", "In association with Madanapalle Institute of Technology & Science", and the date "27 JUNE | 6 PM". A portrait of Ayon Roy is shown, with a caption below it identifying him as "Ayon Roy, Speaker/Mentor/Judge @ 150+ AI, ML, Data Science Events".



# State Map of Michigan

1890

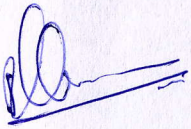
The State of Michigan is bounded on the north by Lake Superior, Lake Michigan, and Lake Huron; on the east by Lake St. Clair and Lake Erie; on the south by the State of Ohio; and on the west by the State of Wisconsin and the State of Illinois. The State is divided into 83 counties, and is bounded on the north by the 43rd parallel of latitude, on the east by the 84th meridian of longitude, on the south by the 42nd parallel of latitude, and on the west by the 86th meridian of longitude.



# EVENTS

AY 2020-2021

- 1 Robo Race
- 2 Robo Soccer
- 3 Workshop on advanced ITO
- 4 Tech Fest





# Robo Race

Conducted on April 2020

## Report:

In this competition, Participants assigned to make a robot for racing and which as the capability to control by mobile using Bluetooth module embedded on the microcontroller.

There are 8 participates shared the demines to build the model

## Lakshmi Timmasree (Time Lead)

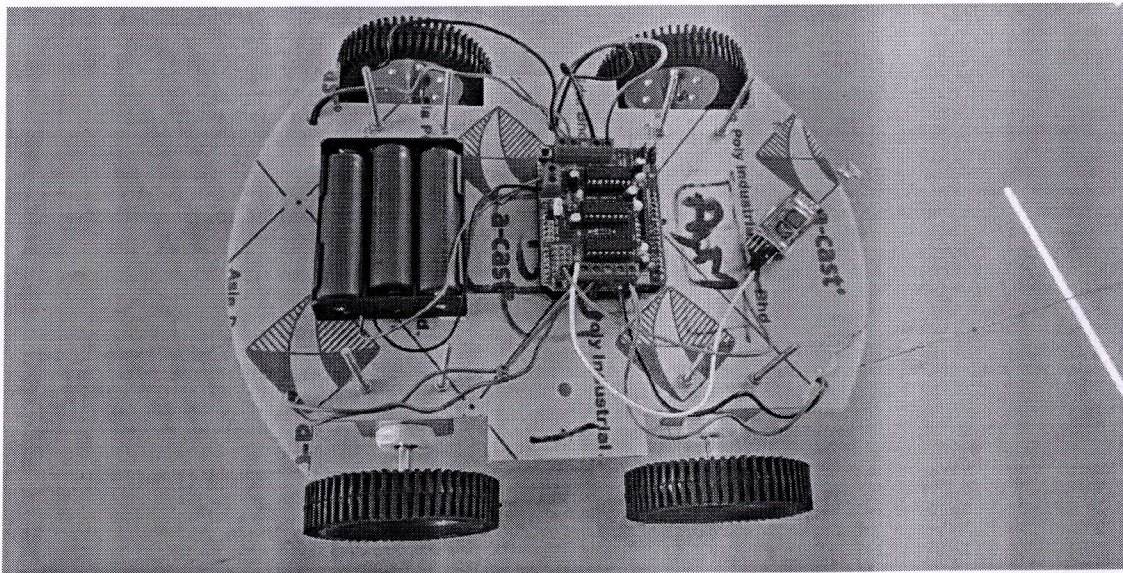
She is assigned to manages all the team, helps in each field, and encourages the team in difficult situations.

## Circuit connectors

Devan Dilip & Jeevan deals with the circuit connections to the robot.

## Programmers.

Manoj , Sarvanan & Venkat Sai makes the interaction with the robot and mobile connection.





# Robo Soccer

Conducted on June 2020

## Report:

Robo Soccer Competition conducted all over the world named Technoxian. This competition enables the participants to learn in deep and have the experience of making the robots, which give the visualization of making the robots, with the robots took part in the event and make them demonstrate in the competition.

## Team leader:

*P. Abdul Azeez*

The team leader who manages all the activities, which are going to be done in the changes of the robot, which they make, and guides the team members.

## Programmers:

*Gnana prasanna & Hemamanisai.*

These two members manage all the computer organized programs and embeds in the micro controller.

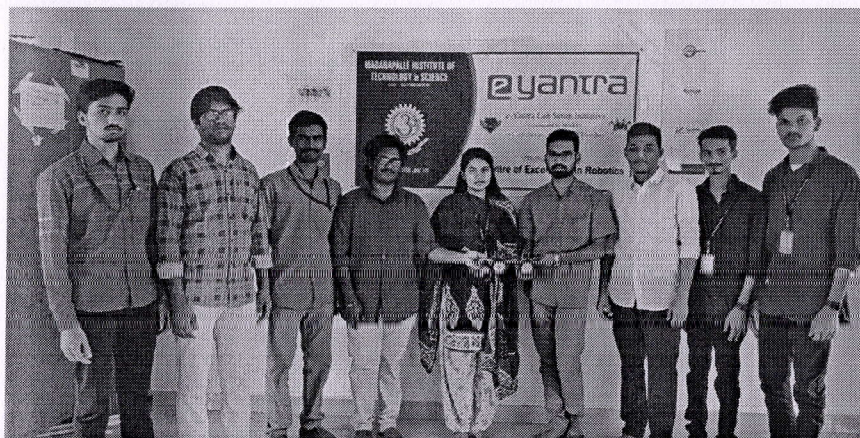
## Circuit designers:

*Aravind, tarun:*

They manage all the circuit connections in the robot. In addition, helps in assembly of the robot. Makes the design of the entire robot.

*Asif, Ganesh & Kasi:*

The members who make the trails and makes the controller of the robot to work.





# Workshop on advanced ITO

Conducted on July 2020

## Report:

The workshop on advanced IOT has the following contents Bluetooth controlled car using Arduino, WIFI controlled Micro controlled Arduino, basics of Raspberry pi, Introduction to humanoid robot. The guest Mr. Yogendra Varma who hold masters in the robotics from California University. He has a good experience in the Robotics which are conducting in the AMC Engineering College Bangalore

A team of 13 member were go participated and received best out of it.





# Tech Fest

December 2020

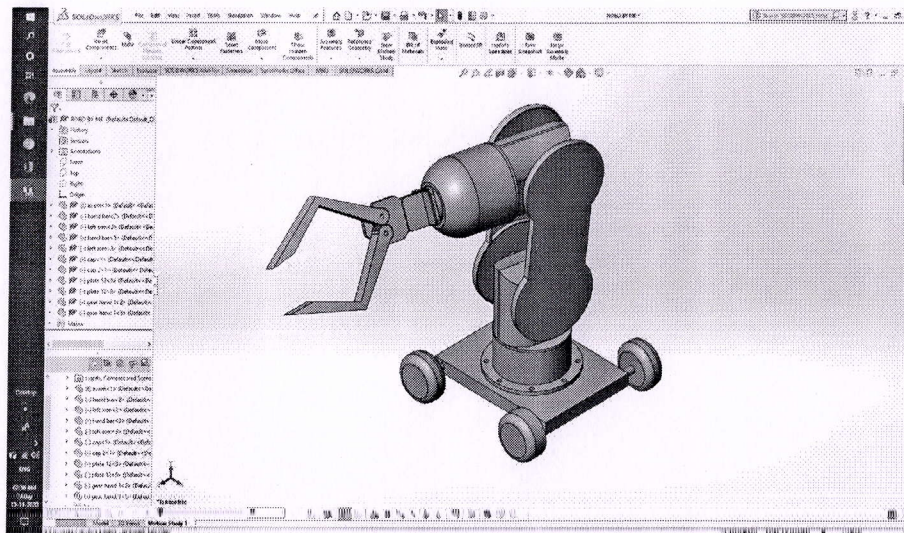
## Report:

Tech fest competition held visually through online. We are assigned build pick and place robot (picks the blocks in the blocked area and deposits in the way where it is allocated to place.

We secured 23<sup>rd</sup> place in this competition.

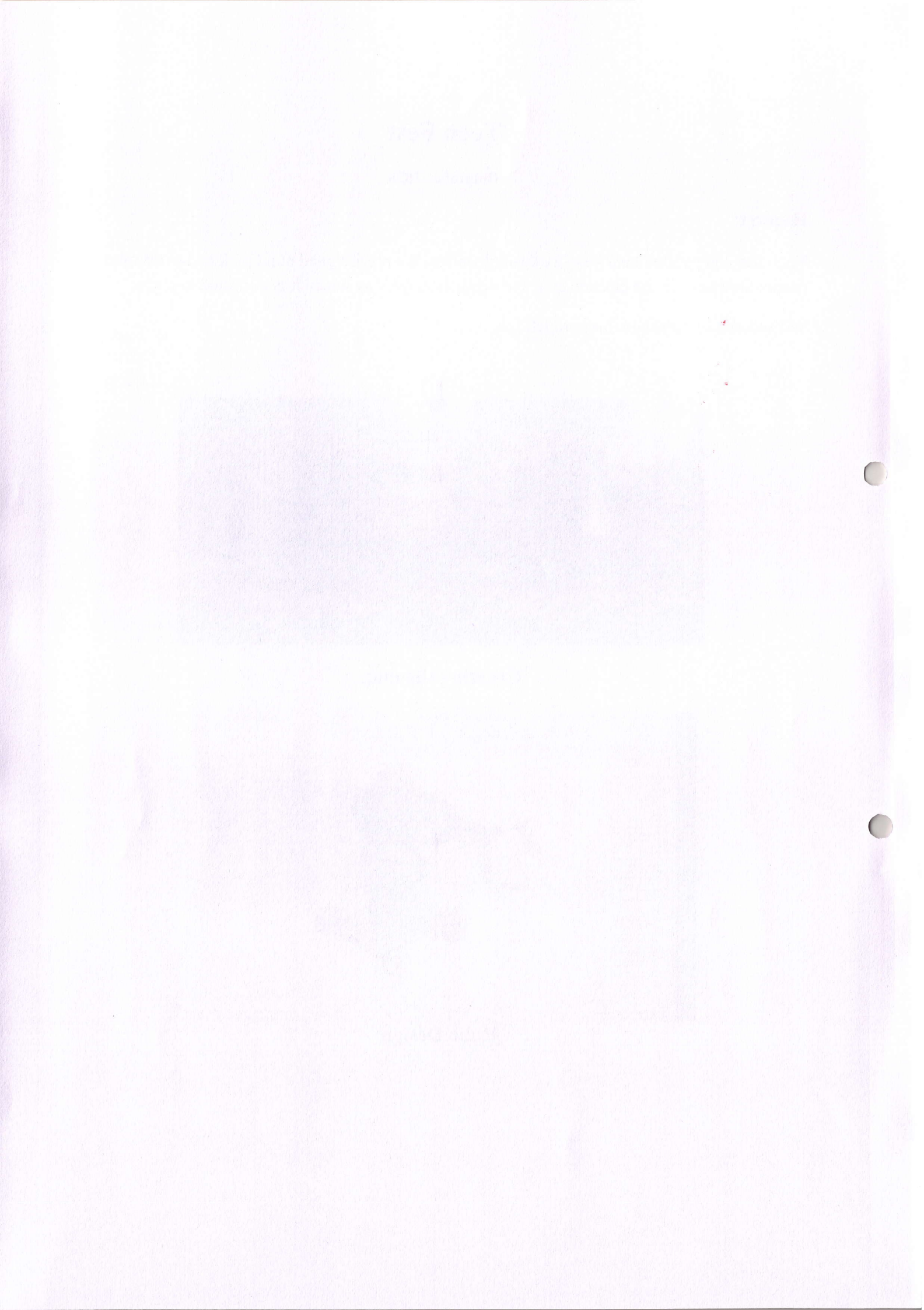


Creating the map



Robo Design



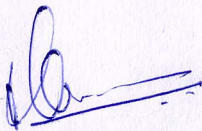




# EVENTS

2019-2020

1. INAUGURATION OF AMCC (Aero Mechatronics Collegiate Club)
2. Workshop on robotics & IOT
3. E-Yantra Robotics Competition.
4. E-Tantra Idea Competition.





# INAUGURATION OF AMCC (Aero Mechatronics Collegiate Club)

Inauguration

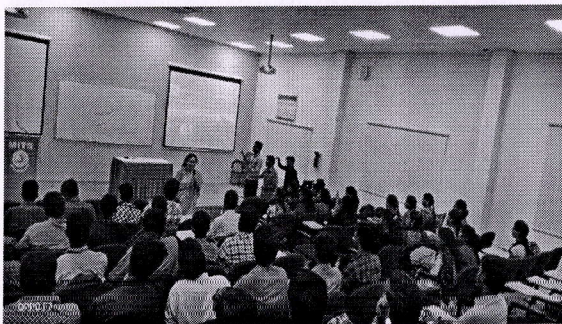
September 2019

## REPORT:

Aero Mechatronics Collegiate Club (AMCC) as established in the year 2019. With 600 and above student participants. AMCC has a collaboration with SAC (Student Activity Center) of Madanapalle institute of Technology & Science.

The Inauguration was started with the prayer in the presence of Dr. C. Yuvaraj, Principal, MITS, Madanapalle & the Faculty co coordinator Dr. Asish Agarwal Asst. Professor of Mechanical Department. The event went on smoothly under the Guidance of the Dr. Attar Samina Khan Student Welfare Officer. In this event, we have introduced the coordinators who are the leaders of the AMCC and explained about the club and the roles in our club

We have presented district & National wide events and competitions to the students. And also the opportunities which the AMCC is ready to deliver.





# Workshop on robotics & IOT

Conducted on August 2019

## Report:

Workshop on robotics & IOT in the month February has served us with good informative things to inculcate in our future projects. The team of nine Participants have paid there interest to enhance their hands-On knowledge. In addition, we came to know about the more competitions, which enables us to make and grab more opportunities in upcoming days.

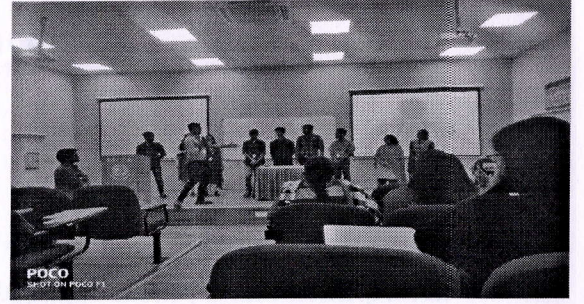
List of participants.

1. S. Mohammed Shoyab
2. G. Harish Vinay
3. B. Hari Krishna.
4. Pavan kumar.
5. Poojitha
6. Rukmini.
7. Akshita.
8. Kavya sree.
9. Reespa.





# Workshop on Robotics & IoT



In addition, we aim to know about the smart components which role to play in the future and how important it is in the coming days.

## Workshop Participants

1. S. Mohanraj
2. G. Harish Vignay
3. B. Han Arishan
4. Pravin Kumar
5. Prathiba
6. Karthik
7. Abhinav
8. Kavya
9. Kavya



# E-Yantra Robotics Competiton.

January 2020

## Report:

E-Yantra Robotics Competition in the month June, This is the competition held at the IIT-Bombay. This is the one of the most reputed competition in India. As being the participants in the competition enabled us to learn leading streams like ML, ROS and RPA, Which are the basics of the mechatronics and very known languages in the robotics stream.

The team members:

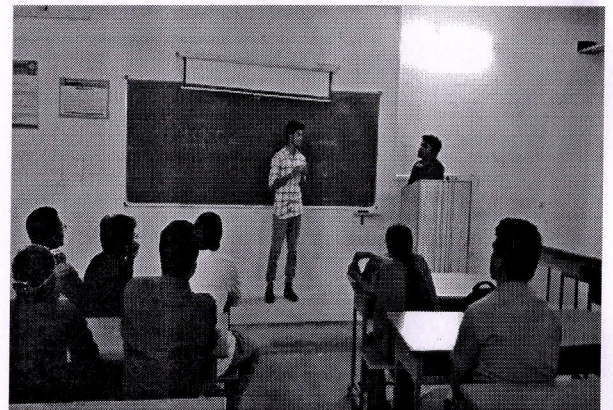
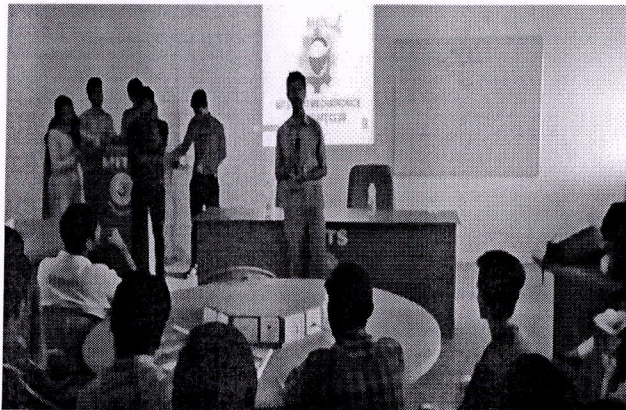
Shoyab

Pavan

Akshita

Rukmini.

In E-Yantra Robotics Competition we have reached the level 2, And have achived 78<sup>th</sup> place in the competition.





# E-Yantra Idea Competition

Conducted in the month of March 2020

## Report:

This competition held under the supervision of IIT Bombay; E-Yantra Idea Competition helps the students to explore their ideas and implement them in the real time problems and helps the students to make their ideas for the society. it undergoes some levels for the filtration to sort out the best idea for the implementation.

The participants from our college have submitted their ideas to the panel member and got sort listed with 4 teams of 15 members.

Team 1	Team 2	Team 3	Team 4
S. Mohammed Shoyab	Pavan	Vaishnavi	Mounika
Bhargavi	Vennella	Mounika	Rukmini
M. Meghana	Dinesh	Prathap	
Sateesh.	Kiran kumar	Ruchitha	





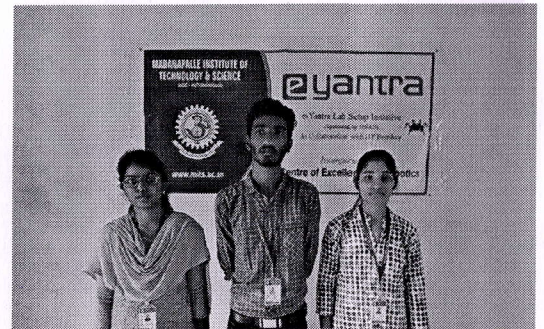
Team-1



Team 2



Team 3



Team 4



