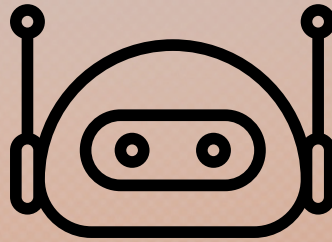


Report on ArduBotics



11/11/2022

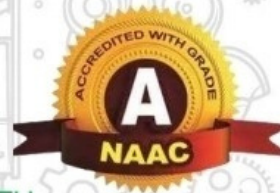
12/11/2022

CMR TECHNICAL CAMPUS

(Sponsored by CMR Technical Education Society)

UGC AUTONOMOUS

Accredited by NBA & NAAC with 'A' Grade. Approved by AICTE, New Delhi and JNTU, Hyderabad, Kandlakoya (V), Medchal Road, Hyderabad – 501 401



Two days Workshop on

ArduBotics Robotics

11th – 12th November 2022



Jointly Organized by Robotics Club & Innovians Technologies, IIT, Varanasi

Department of

ELECTRONICS AND COMMUNICATION ENGINEERING

Co-Coordinator

(Mrs. M.Sravanthi)

Coordinator

(Dr. K.Bharath Kumar)

Head of Department

(Prof. G. Srikanth)

Director

(Dr. A. Raji Reddy)

BANNER

Lock the dates on Nov 11 & 12

This Workshop Is Dedicated To Clear The Basic Concept Of Electronic & Electrical Components.

ArduBotics Robotics

Enroll for 2 days.
Rs 800/- per participant

ARDUBOTICS IS A WORKSHOP ON INTELLIGENT AUTONOMOUS ROBOT ,BASED ON MICROCONTROLLER AND MULTIPLE SENSORS.



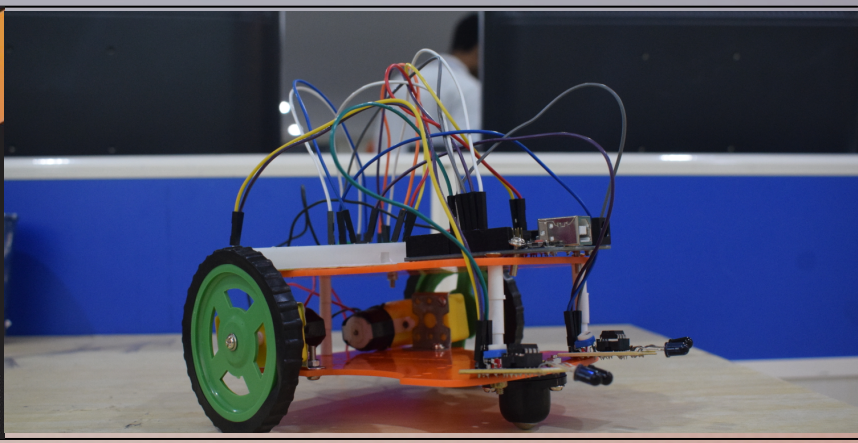
Robotics Club

CMR Technical Campus

Dr. K. Jithendra Kumar
N. Sruvanti
CO-ORDINATORS

G. Sreekanth
HOD, ECE DEPARTMENT
CONVENOR

Dr. A. Raji Reddy
DIRECTOR



Sechedule Of The Workshop :-

DAY_1	DAY_2
Inauguration ceremony	Robot Assembling Robot 1: Line Follower Robot Robot 2: Obstacle Avoider Robot Robot 3: Edge Avoider Robot
Introduction about Robotics Embedded System & AVR Microcontroller	Robot 4: Android App Based Controlled Robot over Bluetooth (Designing Own Android App)
Arduino jargon and terms Arduino Basics	Robot 5: Voice Controlled Robot using Android Smartphone
Programming fundamentals Development & Testing on Arduino Board	Robot 5: Voice Controlled Robot using Android Smartphone
Programming Basics: Example 1: Basic LED program Example 2: LED Blinking Program Example 3: Integrating IR Sensor with Arduino	VALEDICTORY CEREMONY

Inauguration ceremony



Inauguration started with lighting the lamp with a prayer song & it made us to "Question ourselves what we will be able to do"

mentoring increases the students effectiveness and improves organizational performance and it is done by our

Academic Dean Dharmaji Rao sir,

Director Dr. A. Raji Reddy sir,

ECE-HOD Dr. Srikanth sir,

Co-Ordinator Dr. Bharath sir

Co-Ordinator M. Sravanthi mam



Dr. Dharmaji Rao, Dean



Dr. A. Raji Reddy, Director



Welcoming of our two days workshop mentor and coach

Dr. Anvesh Reddy sir



Dr. Srikanth, HOD(ECE)

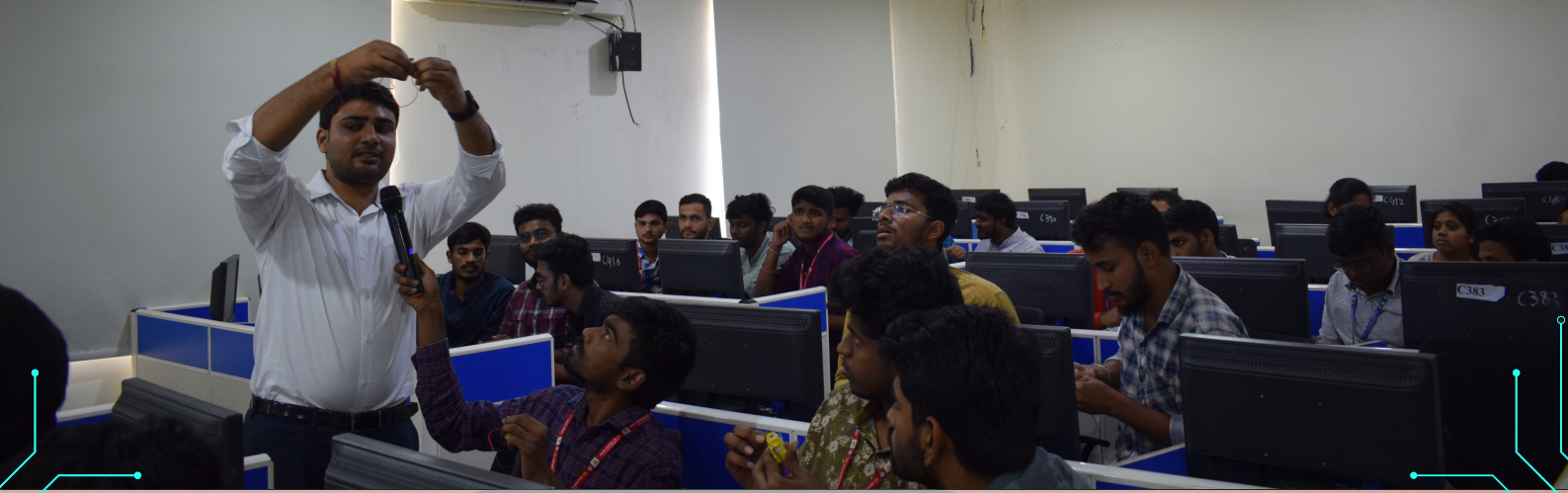


Dr. Bharath, Co-Ordinator



M. Sravanthi, Co-Ordinator





ARDUBOTICS

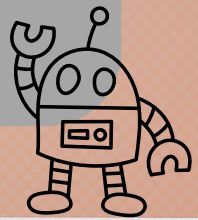


Over 79 students took part in this workshop which involved Programming basics & Robot Assembling which made students actively participated and learned something new.

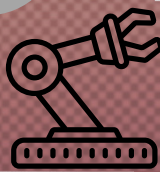
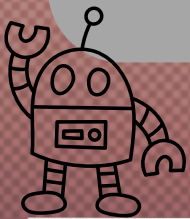
OBJECTIVE OF THIS WORKSHOP



Students learnt through guided activities and designed the robots.



A good robotics workshop includes developing their own robots through guidance.



• This workshop encouraged creativity and developed logic and reasoning skills among students.

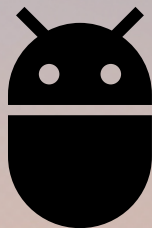
• Developed computational thinking and programming competencies.



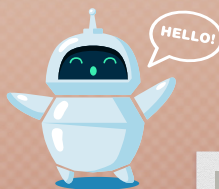
LIST OF ROBOTS ASSEMBLING IN THE WORKSHOP:-



Line Follower Robot



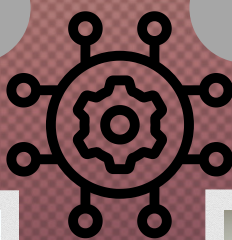
Obstacle Avider Robot



robot over Bluetooth



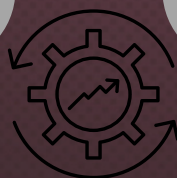
Edge Avider Robot



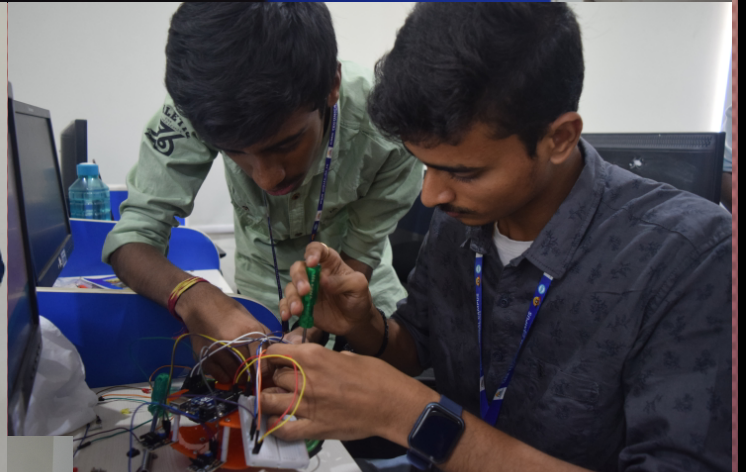
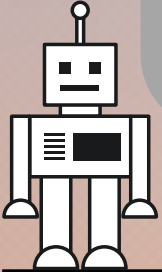
Voice Controlled Robot using android smartphone

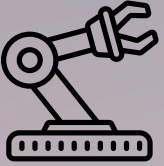


Gesture Controlled Robot using android

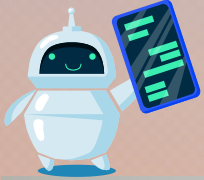


In the end of the session a test was conducted for the students which was held for a duration 30 minutes where the students were given some challenges to solve





The best 2 teams were selected and were promoted for the next level where they will be taken to IIT VARANASI in March 2023.



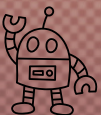
WINNERS :-

K Madhu

K. Manoj

M. Deepak reddy

S. Shivaraj



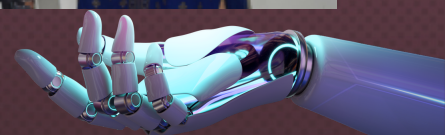
RUNNERS :-

B.Harika

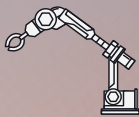
R.Pavani

KL.nandhini

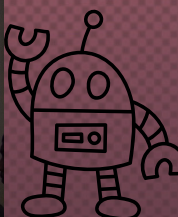
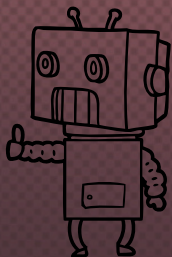
V.poojitha



Thus, the workshop that generated a great excitement in faculty and students has become a great success.



Participation certificates were issued to all the participants and the students who were selected for the next level were issued a certificate of excellence. Also the students were filled a feedback form where they reviewed the session based upon their experience and shared some good reviews.



By this the workshop came to an end with a Valedictory ceremony as a farewell to the event at 03:30pm on 12-11-2022.