

# RVR & JC College of Engineering, Guntur, AP

## College Information:

The R.V.R. & J.C. College of Engineering, Chowdavaram, Guntur trains undergraduate and postgraduate students in Engineering and Management for award of degree from Acharya Nagarjuna University.

During the 34 years of its useful and purposeful experience, the college has grown into one of the largest and leading engineering college in South India with excellent infrastructural facilities and competent human resources.

## Activities in e-Yantra lab

The Robotics Club was initiated on 13<sup>th</sup> April 2018. Under this club students are encouraged to participate in various embedded and robotics technical events conducted at various institutions across the country. Students are encouraged to use the "e-Yantra" lab for this purpose. They are also encouraged to do the projects in embedded and robotics domain by making use of the "e-Yantra" lab. Various projects are ongoing



Principal



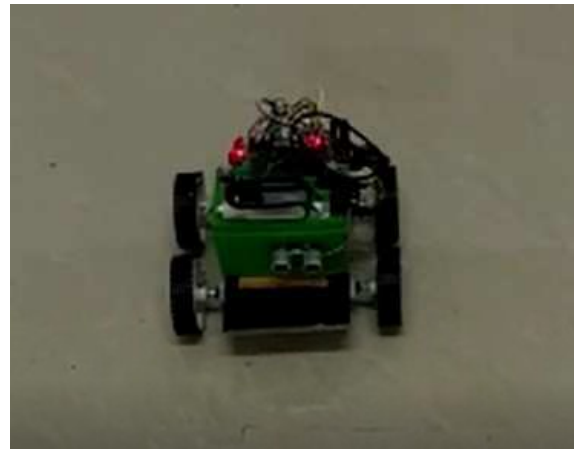
Robotics club in-charge



e-Yantra lab in-charge



Institution



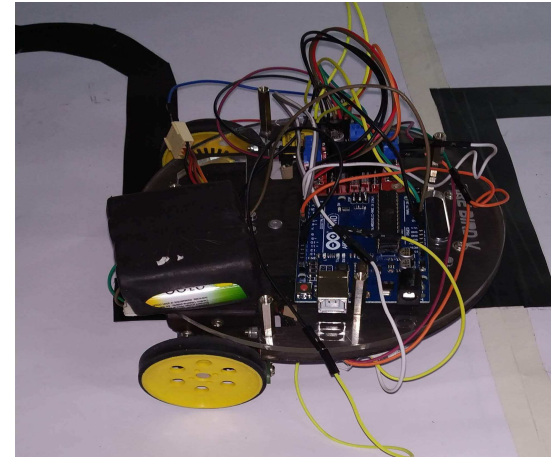
Phototron

The objective of this image-processing event is to make an autonomous robot that can detect the shape shown to it and then go to the identified shape in the arena.



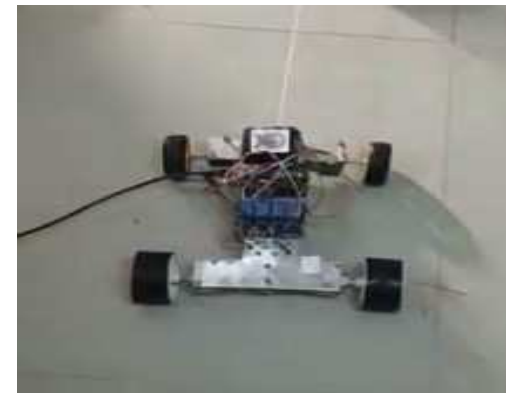
Mobile Controlled Robot

A Mobile Controlled Robot is a mobile device, which provides wide-range of wireless control ability to your robot unless your cell phone gets out of signal. The objective is to build a bot which can navigate using your instructions through DTMF controlled by your mobile phone and manoeuvre the bot through the arena



Line Follower

Line Follower is an autonomous robot which follows a black line in the white background. The objective of this contest is to complete the course in the shortest period of time with less number of deviations from the path.



Tug of Bots

The objective of this competition is to design and build a robot that will pull another robot when connected with a string in a tug of war contest across a centre line.



Avion - E

The objective of this competition is to build a quad copter to travel from source to destination crossing various interruptions and hurdles.

## Faculty Coordinators

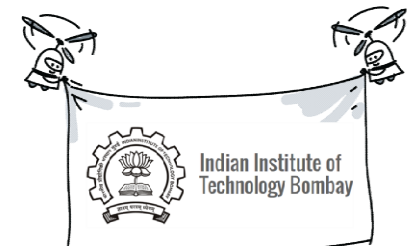
1. Dr. R. Sreenivasulu
2. Dr. C. Tara Sasanka

## Student Organizers

1. G. Kundan Sai Datta Prasad
2. V. Krishna Teja
3. G. Raghava Rao

## Student Organizers

1. N. Badari Sai Surya Teja
2. M. Bhargav
3. B. Revanth Kumar
4. G. Naga Phani Sreevatsava
5. N. Mohit Sai



# Robotics Club

The Robotics Club was initiated on 13<sup>th</sup> April 2018. Under this club students are encouraged to participate in various embedded and robotics technical events conducted by various institutions across the country. Students are encouraged to use the "e-Yantra" lab for this purpose. They are also encouraged to do the projects in embedded and robotics domains by making use of the "e-Yantra" lab. Various projects are ongoing.

The Faculty coordinators are

- Dr K. Srinivasu. (Principal of RVR.& JC College of Engineering)
- Dr K. Ravindra. (Mechanical Engineering, Head of the Department)
- Dr N. Naga Malleswara Rao. (Information Technology)
- Dr R. Sreenivasulu. (Mechanical Engineering)
- Dr C. Tara Sasanka. (Mechanical Engineering)

Student organizers are

- G. Kundan Sai Datta Prasad (Y17ME063)
- V. Krishna Teja (Y17ME167)
- G. Raghava Rao (Y17ME054)

Student coordinators are

- N. Badari Sai Surya Teja (Y15ME903)
- M. Bhargav (Y15ME980)
- B. Revanth Kumar (Y15EE816)

The members of the Robotics club are

S. No	Name	Student - Id
1	D. Raghava Babu	Y16CS823
2	B. Sai Avinash	Y16EC810
3	L. Chandana	Y16EC881
4	Ch. V. S. N. S. L. A. Yesaswini	Y16EC824
5	B. Anusha	Y16EC811
6	G. Kundan Datta Prasad	Y17ME063
7	V. Krishna Teja	Y17ME167
8	G. Raghava Rao	Y17ME054
9	N. Mohit Sai	Y17ME115
10	V. Venkata Kishore	Y17ME171
11	K. Mohana Hemanth	Y17ME106
12	K. Aparna	Y17ME077
13	G. Chihnita	Y17ME062
14	P. Vijay Kanth	Y17ME120

15	G. Naga Phani Sreevatsava	Y17IT035
16	B. Krishna Sowmya	Y17IT009
17	D. Salman	Y17IT025
18	G. Adi Lakshmi	Y17IT038
19	M. Leela Kali Manasa	Y17IT066
20	T. Deepika	Y17IT104
21	P. Durga Bhavani	Y17EC129
22	K. Prasad	Y17EC067
23	Ch. Ajay Kumar	Y17EC025
24	A. Varun Kumar	L18EE182

The list of events students won the prizes are

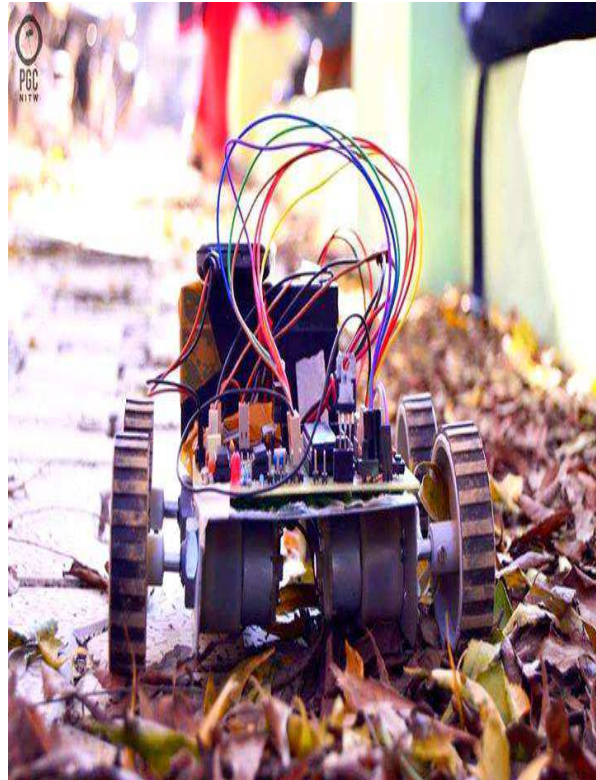
### 1. Phototron.



The objective of this image-processing event is to make an autonomous robot that can detect the shape shown to it and then go to the identified shape in the arena.

**won the 1<sup>st</sup> prize worth of Rs 15000 for the phototron event Conducted by Techniche at IIT Guwahati.**

## **2. Mobile Controlled Robotics.**



A Mobile Controlled Robot is a mobile device, which provides wide-range of wireless control ability to your robot unless your cell phone gets out of signal. The objective is to build a bot which can navigate using your instructions through DTMF controlled by your mobile phone and manoeuvre the bot through the arena.

**won the 2<sup>nd</sup> prize worth of Rs 4000 for the event Mobile Controlled Robotics  
Conducted by Technozion at NIT Warangal.**

**The list of events students participated are**

**1. Line Follower**



Line Follower is an autonomous robot which follows a black line in the white background. The objective of this contest is to complete the course in the shortest period of time with less number of deviations from the path.

Conducted by Technozion at NIT Warangal.

## 2. Jahaaz



To construct a wireless boat (with electric motors) which need to traverse the entire arena within the minimum time.

Conducted by Technozion at NIT Warangal

### 3. Copter Valor



The Objective of this whole competition is to judge the knowledge and skills of all the participants, on the basis of which the winners of the Quad Copter Championship will be declared. Build your Quadcopter to travel from source to destination crossing various interruptions, hurdles etc. along the path of the journey.

Conducted by Technozion at NIT Warangal.

On behalf of robotix club and E-yantra established in our college the students of the club had attended the following events

- 1) **Participated in the event phototron conducted by the IIT GUWHATI on 15-June 2018 and secured the first place and won the prize money of RS.15000/-**
- 2) Participated in the events mobile controlled robots , jahaaz , line follower ,quad copter conducted by the NIT Warangal and had secured the second place in mobile controlled robot and won prize money of RS.4000/-
- 3) Participated in the events tug of bots ,line follower , robo soccer and light follower conducted by the IIT JODHPUR and secured 4<sup>th</sup> place in the events tug of bots and light follower and 5<sup>th</sup> place in the event light follower .