



GOKHALE EDUCATION SOCIETY'S



**R.H.SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES & RESEARCH, NASHIK- 422 005.
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION**

Presents

G~ESTRONIKA~2K14

A NATIONAL LEVEL EVENT

DATE : 19, 20 March 2014

ROBOTER RENNEN -
ROBO RACE

ELECTRO ART -
CIRCUIT BUILDING



: Contact :
: CO-Ordinators :

Shreyas Upasani
8956576028

Bhushan Kapse
7387202427

Aashish Bhamare
7276509079

Pratik Jain
9405212095

Amol Thombare
8983568146

: Venue :

**R.H.SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES & RESEARCH
Prin. T.A.Kulkarni Vidyanagar,(Near to R.Y.K. Campus), College Road, Nashik - 422 005.**



Gokhale Education Society's
R.H. Sapat College of Engineering, Management Studies & Research
Department of Electronics and Telecommunication



GESTRONICA 2K14

Electro- Art: A circuit Building Competition.

Date: 19th March 2014

Problem Statement:

It's all about Building the circuit with various levels and brain storming the tricky faults

Rules and Regulations:

- In one group only two members are allowed.
- There will be three rounds.
- Mobile phones are not allowed.

Rounds:

First Round:

- Task: To detect the faults and run the given circuit.
- Time limit: 15 min.
- Total number of faults: 4
- At least 3 faults should be detected to qualify for next round.
- Each fault carries 10 marks.
- Total marks = 50marks

Second Round:

- Task: To build a circuit from the given specification on breadboard. If it runs successfully, you qualify to next round.
- Time limit: 30 min.
- Total Marks: 50 marks

Third Round:

- Task: To design and simulate a circuit in software. (Only name of the circuit will be given).
- Time limit: 30 min.
- Total Marks: 100 marks

Entries

- No. of Participants in each group: **2**
- Entry Fee per group: **Rs.100/-**

Certificate policy:

- Certificate of Excellence will be awarded to all participants.
- Certificate of Participation will be awarded to all participants.

Student Co-ordinators

1. Vrushali Pawar +91 96735 17864
2. Shivangi Pal +91 96734 45133

Staff Co-ordinators

- Mr V. N. Shah Mrs M. S. Deole
Event Co-ordinators

Prof. S. P. Agnihotri
HEAD, E &TC



Gokhale Education Society's
R.H. Sapat College of Engineering, Management Studies & Research
Department of Electronics and Telecommunication



GESTRONICA 2K14

ROBOTER-RENNEN ROBO RACE

Date: 20th March 2014

Problem Statement:

It's all about completing the track with various difficult levels and tricky obstacles.

Rules and Regulations:

1. Any unfair means on the track or during the event will lead to disqualification.
2. All the participants will be judged on the time taken to complete the track
3. There will be various check points in the race and any participant's car goes out of the track at any instant, then they will have to restart again from the previous checkpoint.
4. Any physical intervention by the participants itself will lead to negative points.
5. If any participant finds it difficult to cross any obstacles and wish to proceed then, they will have to face the penalty in the form of time lag.
6. Participants must report 15 min. prior to the event.
7. Any self damage occurring to the car (ex:derailing of tyres) will be joining the race from previous check point.
8. Any type of harmful weapons on the car will not be accepted.
9. Any type of unfair practice on the track will be subjected to disqualification.
10. Decision of respected judges will be taken as final.
11. All participants should come with valid identity card of their respective college.

About the track:

1. The given track has a width of maximum 30cm throughout the track.
2. The minimum height of the track will be 1 foot from the ground and maximum height will be 2.5 feet from the ground.
3. The track consist of many obstacles as you proceed the difficulties goes on increasing.
4. Obstacles will be as follows:
 - Various slopes and inclination of up to 45 degree.
 - Small obstacles like speed breakers, etc types will be present on track.

Robot specification:

1. Physical parameters:
 - Maximum bot size should be 30cm X 30cm X 30cm
 - Weight should not exceed more than 3kg
2. Current and voltage specification:
 - Up to 2 ampere of current will be provided
 - 24 volt DC supply will be provided.
3. Teams can use both wireless and wired remote controls for controlling the bot
4. In case the participants are using a wireless controlled machine, they have to bring two remote controls of distinct frequencies or a dual frequency remote control, which can be switched to either frequency just before start of the run. This is done to avoid frequency interference with competing machines.
5. The teams that are requiring two frequencies to operate the entire bot must take precautionary measures to ensure that it does not clash with opponent's frequency at any point of time. Teams failing to ensure this will be disqualified.

6. In the case of wired mechanism of machine, the wire must not be slack at any point of time during the game. The total length of wire extending from remote control to the machine must be minimum 3 meter

Entries:

1. Maximum limit of members: 4
2. Entry fee per group: 200/-

Certificate policy:

1. Certificate of excellence will be awarded to all winners.
2. Certificate of participation will be awarded to all participants.

Student Co-ordinators:

Bhushan Kapse: +91 73872 02427

Pratik Jain: +91 94052 12095

Staff Co-ordinators

Mr S. R. Chaudhari
Mr M. P. Badhe
Mr H. H. Mutha
Event Co-ordinators

Prof. S. P. Agnihotri
HEAD, E&TC

Track Structure

