**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Descriptions, terms and conditions of competitive events**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SL.NO** | **EVENT** | **Ist Prize** | **2nd Prize** | **3rd Prize** | **EXPENSES** | **TOTAL** |
| 1 | Best Manager | 8,000 | 4,000 | nil | 6,000 | 18,000 |
| 2 | Robopuglism | 12,000 | 8,000 | 5,000 | 4,000 | 29,000 |
| 3 | BURN OUT | 12,000 | 8,000 | 5,000 | 4,000 | 29,000 |
| 4 | Circuitrix | 8,000 | 5,000 | 3,000 | 100 | 16,100 |
| 5 | MatlabProfizia | 8,000 | 5,000 | 3,000 | 100 | 16,100 |
| 6 | Project presentation | 10,000 | 5,000 | 3,000 | 100 | 18,100 |
| **GRAND TOTAL** | | | | | | 1,26,300 |

**1.ROBO PUGILISM-Robo War**

First Prize: Rs.12, 000/-

Second Prize: Rs.8, 000/-

Third prize: Rs.5, 000/-

Event manager:SANTHI KUMAR

Mobile:7293646756

Event coordinator:ASWIN BALACHANDRAN

Mobile:9495577233

#### INTRODUCTION

Here you have to introduce the Supreme Robo wrestler.Robo pugilismis your greatopportunity to bring out the destructivepower of your motor combat into thering. Whereoppugnancies’ becomes reencounter metal blood will drop in the ring

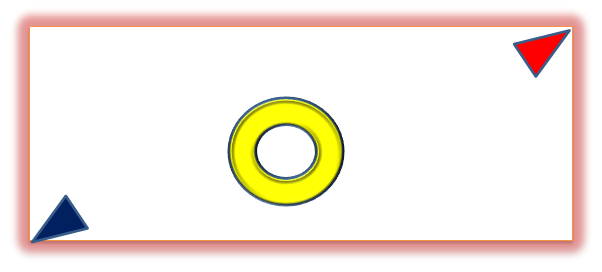
**SPECIFICATION OF THE ROBOT**

Weight: 10kg

Dimensions (l\*b\*h):50cm x 50cm x 40cm

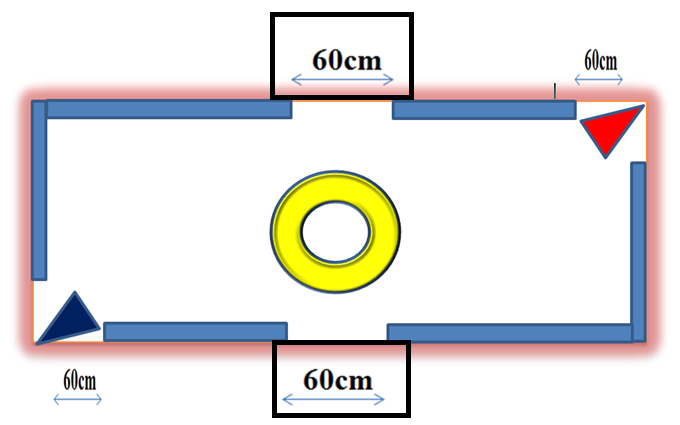
Power supply: 24 Volts

**ROUNDS**

**1) ELIMINATION**

* Arena size 3.6m x 2.4m
* Single round 5minute match with an interval of 2 minute
* Score depends on
* Wireless robot will get 70pts
* Pushing your opponent out of arena will get 50pts
* Immobilizing the opponent(15sec count) will get 30pts
* Condition when tie occurs there will be another 1min tie breaker
* Group winner will be election based upon the following and participant with highest point will get into the next round.
  1. Winner will get 10pts
  2. Tie match will get 3pts each
  3. Winner in the tie breaker will get 3pts
  4. Scores per Second = Total scores/Match Duration

**2) KNOCK OUT ROUND**



* Match will be conducted in a modern arena with four openings
* Among the four opening two side opening will lead to a springe
* 3 minutes x 3 round match (i.e.; 9 minute match)
* 1 minute interrupt between each round
* Corner opening will be available in all time
* Side opening will available in every 20 sectime. Pushing the opponent to the springe will gain points.
* Score depends on
* Wireless robot will get 70pts
* Pushing your opponent out of arena will get 50pts
* Pushing your opponent to the springe will get 100pts
* Pushing your opponent out of arena though the corner opening100pts
* Immobilizing the opponent(15sec count) will get 30pts
* Condition when tie occurs there will be another 1min tie breaker

RULES AND REGULATIONS

* Maximum of 5 members in a team
* Decision of Judges will be final and if necessary they have the power to change the rules.
* In case any controversy, Agnitus programme committee will take final decisions.
* No limitation in the no. of team from a college.
* Cross-college teams are allowed.
* Agnitus programme committee will not be responsible for any losses or harm happening to you while participating the events.
* Violating the rules and damaging the college property will attract penalty and permanent disqualification.
* Weight and dimensions of the robot will measured at the beginning of each match. Tolerance at stage is 5%
* Once the weight and dimensions are noted it will be permanent during the whole tournament.
* Changing of motor or other circuit parts will be allowed only if break down occurs. Alteration of shape will not be encouraged.
* No of rounds will be depend upon no of participants.
* Certificate will be provided for the winners.

**2.BEST MANAGER**

First Prize: Rs.8,000/-

Second Prize: Rs.4,000/-

Event manager:ADITHI PRAKASH

Mobile:9895769146

Event coordinator:VINEETH C.M

Mobile:9562470503

#### INTRODUCTION

Here we intend to find an individual who has the best managerial skills. If you have got it in you to blow us away Let’s see it..

**RULES AND REGULATIONS:  
THIS IS A SOLO EVENT AND COMPRISES OF 4 ROUNDS AS FOLLOWS:**

**ROUND 1: (PRELIMS)**  
• The written test comprises of objective questions.   
• There will be a total of 25 questions.   
• Duration is 30 mins.

**ROUND 2: (GROUP DISCUSSION)**

•Each GROUP will be given a topic first.

•1 minute will be provided for preparation.

•Each GD will be of 10 minutes duration.

**ROUND 3: (MULTITASKING)**

• Each participant will be given a topic first.   
• A clip of audio-visual will be displayed simultaneously.   
• The idea is that the topic, audio and video will be totally unrelated and the participant has to create a flow of thoughts between them and talk about it.   
• You will be given a preparation time of 1 min and explanation time of 2 minutes.

**ROUND 4: (AD-ZAP)**

• This is a marketing round. It will test the person's ability to convince people, his managing skills and clever ideas.   
• The selected participant will have to market a worthless product to an irrelevant person.   
• He/she will be given 1 min preparation time and 3 min to market the product.   
• A total of 6 participants will be selected for the next round.

**ROUND 5: (STRESS INTERVIEW)**  
• Three participants shortlisted for the final round will be undergoing some sort of stress interview which would test power management, tolerance and patience.   
• Time is variable.   
• The best surviving participant will be awarded the title of, "BEST MANAGER".

**NB:** If the no. of participants are less than 20, prelims will be excluded.

**3. MATLAB PROFIZIA-MATLAB PROGRAMMING**

First Prize: Rs.8, 000/-

Second Prize: Rs.5, 000/-

Third prize: Rs.3, 000/-

Event manager:ARJUN P A

Mobile:7736828076

Event coordinator: ANUGRAH PRAKASH

Mobile: 9633983765

**INTRODUCTION**

The motive hidden behind designing software is to make things simple. MATLAB as everyone know it is meant for scientific and engineering numerical computations and visualization. Hence MATLAB had become the backbones of many technologies by providing some path. Agnitus provides you golden arena to prove your proficiency in MATLAB.

**RULES**

* Maximum no of members in a team is two.
* There will be an elimination round with objective type questions regarding the event.
* Total duration of event is 1.30 hour with 20min objective and 1hourprogramming secession
* Participants have to develop a particular programme as advised.
* Level of achievement decides prize money. I.e. you have to make 100% solution to achieve the full amount of prize money.
* Certificate will be provided for the winners.
* Decision of Judges will be final and if necessary they have the power to change the rules.
* In case any controversy, Agnitus programme committee will take final decisions.
* No limitation in the no. of team from a college.
* Cross-college teams are allowed.
* Agnitus programme committee will not be responsible for any losses or harm happening to you while participating the events.
* Violating the rules and damaging the college property will attract penalty and permanent disqualification.

**4.PROJECT PRESENTATION**

First Prize: Rs.5, 000/-

Second Prize: Rs.3, 000/-

Third prize: Rs.2, 000/-

Event manager: ROMA A P

Mobile: 9747681030

Event coordinator: SANAHA SHYAM

Mobile: 7736131673

INTRODUCTION

Any innovative project ideas are invited

RULES

* Project idea should be relevant in field of **Electronics and communication**
* Maximum no: of members in a team is five.
* Maximum time allotted for a team is 30 mins.
* Participants should upload their project synopsis including the block diagram, detailed working and area of application to projectpresentationec2k14@gmail.com (due date 8/2/2014)
* In case of more than 15 entries elimination will be done based on.

1. Feasibility of the project
2. Technology used to implement

* Selected and rejected entries will be informed.
* Selected entries should attend on the viva-voce section with the working model and slides not more than 50.Priority will be given to projects with working model.
* Score based on

1. Knowledge about the model.
2. Feasibility of the project
3. Technology used to implement

* Certificate will be provided for the winners.
* Decision of Judges will be final and if necessary they have the power to change the rules.
* In case any controversy, Agnitus programme committee will take final decisions.
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* Violating the rules and damaging the college property will attract penalty and permanent disqualification

**5. BURN OUT**

First Prize: Rs.12,000/-

Second Prize: Rs.8,000/-

Third prize: Rs.5,000/-

Event manager: NAZIF NAZ K N

Mobile: 9746646960

Event coordinator: PARVAN PAVITHRAN

Mobile: 9995904484

INTRODUCTION

This event challenges you to take your bot through a series of obstacles ASAP

SPECIFICATIONS:

* Maximum size of bot:30\*30\*30.
* The Weight of the bot should be less than 10kg.
* The Bot can be wired or wireless.
* Bots cannot be constructed using ready-made Lego kits or any other such mechanism. But ready-made gear assemblies and wheels can be used.
* The teams must bring their own power supply, since it will not be provided by the authorities.
* No IC engines are allowed. The batteries can be placed on the bot or held in hand.
* The maximum potential difference between any two points on the Bot should not exceed 24 V.

RULES:

* Maximum of 4 members in a team
* The actual arena will be revealed only at the venue.
* Circuit will be more than 15m long.
* Track may consist of curves.
* There will be check points in the track including the starting point. Bot can start from the previous check point, if stuck at any point in between check points.
* Different terrains like concrete, sand, soil, gravel, glass, wood, etc. will be used in the track.
* Track will consist of obstacles or speed breakers in the form of water, mud, rollers, rocks, and wooden blocks bumps etc.
* Radius of the track may exceed 5m from the control point.
* There may be bridges, inclined planes, wedges and many more elements.
* The actual arena may or may not have the above mentioned elements.
* The Track is prone to changes.
* Students from different institutes can form a team.
* The authorities will not responsible, if any damage occurs to the bot.
* The Bot with a wireless control will be awarded extra points.
* Running out of the track will result in penalty.
* Hitting the obstacles will also result in penalty.
* The scoring details will be provided at the time of the event.
* Rules are subject to change. The decision of the authorities shall be final.

**6. CONTRIVANCE D’CIRCUITOS**

First Prize: Rs.8,000/-

Second Prize: Rs.5,000/-

Third prize: Rs.3,000/-

Event manager:VARUN B

Mobile: 8129832037

Event coordinator: NIVIN D’CRUZ

Mobile: 9633384558

INTRODUCTION:

We provide theatre were an electronics engineer can perform with his much needed ability. Agnitus 2k14 provides you a space to play with circuits.A person who is called as an engineer must have the skill to shape a product and solve the problems existing in design. In this time of Agnitus we are giving you a chance to prove your workmanship. Get ready for a limelight.

PROCEDURE:

This is group event comprising of three rounds as follows.

**ROUND 1: (PRELIMS)**

Duration: 30 min

• The written test comprises of objective questions.   
• There will be a total of 25 questions.

**ROUND 2: CIRCUIT DESIGNING**

Duration:45 min

The participants must design a circuit as per the specifications given and successfully simulate it in proteus.

**ROUND 3: CIRCUIT DEBUGGING**

Duration:30 min

A error circuit is to be corrected in a limited time period and should be successfully simulated in proteus.

RULES:

* Participants must have knowledge in working with proteus (simulation software).
* Maximum no of members in a team is two.
* There will be an elimination round with objective type questions regarding the event.
* Participants have to find and clear the errors residing in the given circuits.
* Level of achievement decides prize money. I.e. you have to make 100% solution to achieve the full amount of prize money.
* Certificate will be provided for the winners.
* Decision of Judges will be final and if necessary they have the power to change the rules.
* In case any controversy, Agnitus programme committee will take final decisions.
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