



**WAR
ROBOTS**

Jashn-E-Yuva

ROBO FEST 2K24



SAMVID

Bought to you by-
Shri Shankaracharya Technical Campus



ABOUT US

ROBO FEST

WELCOME TO THE 7TH EDITION OF ROBO FEST, A PART OF THE TECHNO-CULTURAL EVENT SAMVID. WE BRING TOGETHER TOP ROBOTICS TALENT FROM ACROSS INDIA, OFFERING HIGH PRIZE MONEY AND ENGAGING COMPETITIONS. WITH A LARGE AUDIENCE AND A FOCUS ON DEVELOPING A ROBOTICS CULTURE, ROBO FEST IS THE ULTIMATE PLATFORM FOR INNOVATION AND TECHNOLOGY.

JOIN Us:

PARTNER WITH US TO SHAPE THE FUTURE OF ROBOTICS IN INDIA. YOUR SUPPORT WILL ENHANCE THE EVENT AND PROMOTE TECHNOLOGY AND INNOVATION IN OUR STATE.

KEY HIGHLIGHTS:

- HIGH PRIZE MONEY
- PAN-INDIA PARTICIPATION
- HIGH VIEWERSHIP AND ENGAGEMENT
- VARIETY OF COMPETITIONS
- CULTURAL IMPACT

ROBO FEST

1. ROBO RUMBLE

2. CYBER RUSH

3. LA LIGA

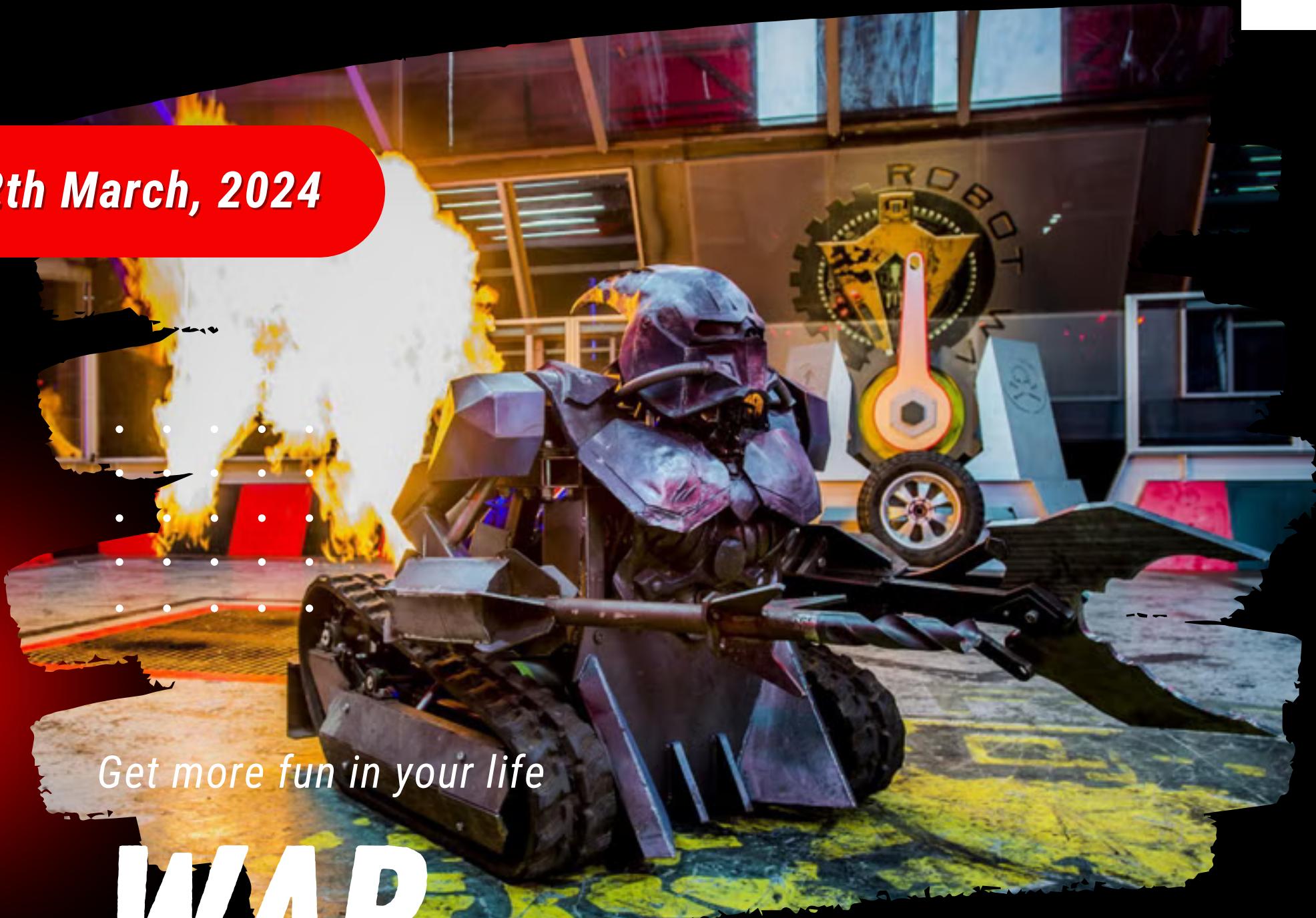


12th March, 2024

WAR ARENA

Get more fun in your life

Failure doesn't mean the game is over, it means try again with experience





SHRI SHANKARACHARYA TECHNICAL CAMPUS
PRESENTS

ROBO WAR

PRIZES
WORTH

30K

COME | BUILD | COMPETE

Entry
750 for 5Kg
1.3k for 1 kg

Details

War:

Is an on-site one-to-one fight. The two robots will be fighting in the arena. The track of points will be maintained for both the teams and the team having maximum points will be declared as winner for that round. This round can be further divided in sub rounds e.g. semifinals and final.

Arena:

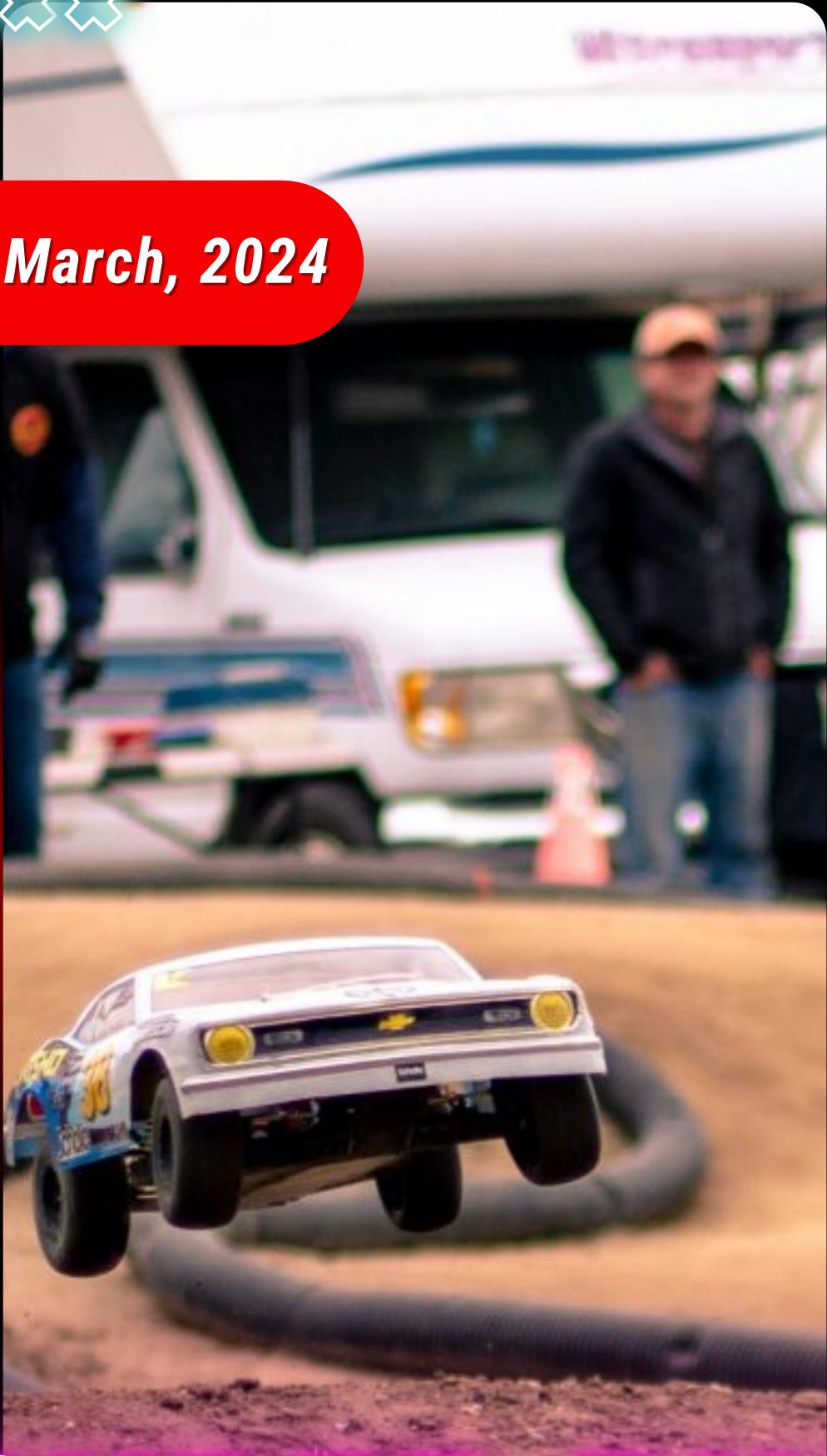
1. The arena is rectangular in shape with a dimension of 10 x 10 x 10 feet.
2. The height above the safety plate is a polycarbonate plate with a cage.
3. The top of the arena is covered with a cage.

Judging Criteria:

1. A bot is declared victorious if its opponent is immobilized.
2. A bot is declared immobilized if it cannot move linearly/rotationally for more than 30 seconds.
3. A robot with one side of its drive train disabled will not be counted immobilized if it can demonstrate some degree of controlled movement.
4. In case both the robots remain mobile after the end of the round then the winner will be decided subjectively.
5. Points will be given on the basis of aggression, damage, control, and strategy.
6. Pinning occurs when one robot, through sheer force, holds an opponent stationary in order to immobilize it.
7. Organizers will allow pinning or lifting for a maximum of 15 seconds per pin/lift then the attacker robot will be instructed to release the opponent.
8. Prize money can vary according to the no of participants.
9. If a team fails to stop the pinning/lifting several times, that team can also be disqualified.



12th March, 2024



CYBER RUSH



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PRESENTS

ROBO RACE

COME | BUILD | COMPETE

12th March 2024

ENTRY

300/-

PRIZES

WORTH

15K

VENUE

1ST YEAR
BLOCK

Robot Specifications:

1. The maximum dimension of the robot can be 40cm * 40cm * 40 cm(lbh)
2. Maximum weight must not exceed 7 kg.
3. The machine must be powered electrically only. Use of IC engine is not allowed.
4. Batteries must be sealed, immobilized electrolyte type (gel cell, lithium, NiCad, or dry cells).
5. The electric voltage anywhere in the machine should not be more than 24 V DC at any point of time.

Track Specification:

1. The track surface and course line may have unevenness.
- 2 . There will be certain obstacles in the race track which will try to slow down the robot.
3. Arena will consist of switch bridge, speed breakers, marble pit, slippery path (by grease), rotating ting disc, curve ramp down, seesaw etc.

Game Rule:

1. The competition is based on time trial system. There will a qualifying round for each team. . The top 5 teams from qualifying round makes it to the final round on basis of time trials.
2. If any of the robots starts off before start up call, counter would be restarted and the machines will get a be placed back on the previous second chance. If repeated again then team will be disqualified.
3. If the Robot crosses a checkpoint, and moves off track, on the Robot would be placed back on the previous checkpoint crossed with penalty.
4. Team members will be allowed only three times to touch or reset their robots position during the run.

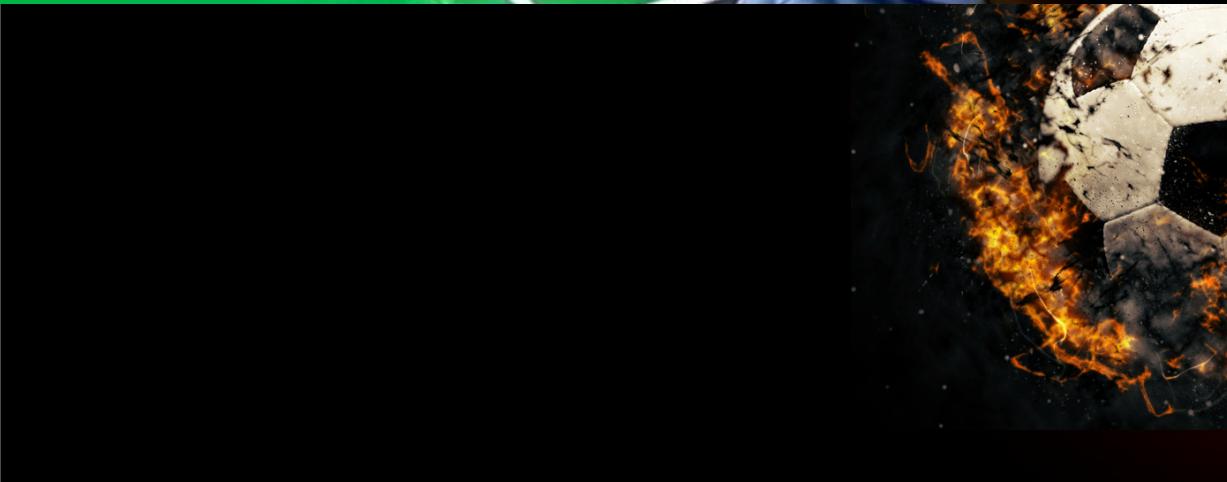
However, this will lead to a time penalty and timer will not stop during this course of action.

5. The robot will be judged on basis of (in priority):-
 - a. Time to complete the track.
 - b. Number of checkpoints cleared.
6. Machine must not contain any pneumatic & hydraulic systems, IC engines.
- 7 . Decision about your robot will be taken by the organizers.
8. No team will get a second chance after completing the track with poor score.
9. The structure of the robot should not be changed during the competition.
10. Prize money can vary according to the no of participants.

12th March, 2024



LA LIGA



EVER IMAGINED CONSTRUCTING A SOCCER BOT,
PITTING IT AGAINST OTHER STRONG, WORTHY BOTS IN A
'NAIL-BITING' TOURNAMENT,
AND BEING THE BEST?



**SHRI SHANKARACHARYA TECHNICAL CAMPUS
PRESENTS**

ROBO SOCCER

Come | Build | Compete

**PRIZES WORTH
RS 5000**

**12TH MAR
2024**



ENTRY : 300/-

Robo soccer:

1. is an event that promises to unleash the spirit of football and Robotics flair within you, and the tenacity of the game is undoubtedly going to require some steely nerves.

Arena:

1. The arena is rectangular in shape with a dimension of 15 x 15 x 10 feet.
2. The height of the side safety wall, which is made of M. S, has a height of 0.5m.
3. The height above the safety plate is a polycarbonate plate with a cage.
4. The top of the arena is covered with a cage.

Challenge Rules:

1. Lifting and weapon mechanism is not allowed.
2. No trapping mechanism is allowed to hold the ball.
3. Max. Dimensions: 30 cm X 30cm X 30cm.
4. Prize money can vary according to the no of participants.

Game Play:

1. 1-4 member/ team
2. 3 min maximum for each team

SHARE THIS ROBO FEST

SAMVID
Jashn-E-Yuva 2024

FOR MORE DETAILS REFER TO OUR
WEB PAGE & INSTA HANDLE

COORDINATOR

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REGISTER