

**Phaltan Education Society's
College of Engineering, Phaltan
Mechanical Engineering Department
Kurukshetra 2K18**

CAD WAR (3D Modelling)

Rounds-

Round -1-

Generating 3D model

Time – 30 minutes.

Rules –

1. This is a hand on round on 3D modelling software.
2. Problem statement consisting of generating an isometric view from 3 or less orthographic view will be given.
3. Result based on accuracy & speed.
4. Some Questions will be asked based on modelling.

Round-2-

Assembly Making

Time – 1 hr.

Rules-

New models will be given & winner will be decided based on the same rule as earlier.

Technical Paper Presentation

Rules:-

1. Maximum number of authors for a paper will be two.
2. Students will deliver seminar topics for maximum of 10 minutes followed by question and answer session.
3. Decision taken by judges in all the matters will be final and binding.
4. Participants should bring the hard copy of Paper (2 nos.) while coming for the competition.
5. Bring your college I-Card & receipt on event day.
6. Carry your PowerPoint presentation in a pen-drive.
7. Soft-copies of the paper must be in the .docx format.
8. Please Mail your abstract, paper and ppt to kurushetra18.ppt@gmail.com. Difficulties will be addressed through the same email-id.
9. Persons from different institutions can be a part of the same team. However, one person may not be a part of multiple teams for the same event.
10. Paper Format
<http://www.ijsrp.org/ijsrp-paper-format.php>
Refer a single column paper format Template
11. Content of Format:
 - Title of Paper.
 - Name/s of Author/s.
 - Name of Institutes.
 - Abstract
 - Content
 - Conclusion
 - References
12. **Last day to submit soft copy of your report (via e-mail) will be two days prior to the day of presentation.**
13. After you have submitted the soft copy, a panel of judges will go through your material and if you are shortlisted to give the presentation, you will be notified.

Topics:-

1. Mechanical Engineering- Ideas, Innovations and Initiatives
2. Renewable Energy & Carbon credit
3. Bio – mechanical technology - This area may include designing prostheses, developing movement systems for people with spinal injuries, and refining equipment for athletes in high-performance sports
4. Space and aviation technology - Design or production of aircraft, spacecraft, aerospace equipment, satellites or missiles.
5. Automobile technology – Design or construction, maintenance, and operation of self - propelled vehicles for use on land or sea, in air or space.
6. Marine technology – conception or design or construction techniques of ships, offshore structures, marine vehicles and other advanced offshore technologies.
7. Robotics & Automation- Design or production of Robots, Automation Lines, Conveyor & Cranes

Tips:-

1. The main objective of the competition that the participant has to keep in mind while preparing is to develop and present a holistic style of approach which is able to motivate his/her audience.
2. The paper being supported/supplemented by technical reference papers gives an added advantage to the participant.

Participation Fee: Rs. /-

Prizes Worth: Rs. /-

Contact Information**Co-ordinators:-**

Prof. Prof. S. R. Sawant: +918796776177

Student Co-ordinators:-

Gandhi Siddhant Prakash: +91 9765620410

Mangesh Jadhav: +91 966692603

E-mail id :- kurushetra18.ppt@gmail.com

E-CONTRAPTION			
Coordinator: Prof. Bagwan S.S.			
Sr. No.	Name of Student Coordinator	Mob no	Email
1	Doshi Sahil Satish	8600170073	Sahildoshi143@yahoo.com
2	Ghadage Aniket Ramesh	7038318782	Aniketghadage87@gmail.com
3	Gaikwad Navnath Ashok	9767039587	Navanathg231@gmail.com

Rules:

1. No. of Participant- 4 only
2. Registration fee is Rs.200 /- only.
3. Setup should be ecofriendly.
4. Time for setup - 1 hour
5. Space for set up is 10 X 10 (feet)
6. Maximum **2** trials are allowed, 30 second trial **15%** points will be deducted.
7. Maximum **2** interventions are allowed, after that point will be deducted for each intervention.
8. Marks will be decided on Total no of energy conversion.
9. Explanation of each and every step.
10. Judges will decide correct no. of steps and energy conversions in the arrangement.

ROBOSOCCER

Rules-

1. Each team will have to defend the goal on its side as well as score the goal on the opposite side.
2. Each team can have a maximum of 2 team members
3. The weight limit of the robot for this competition is 5 Kg.
4. Each robot should not exceed by maximum 40cm.
5. A team can make a robot, 1 robot (manually controlled) taking into consideration that the total weight should not exceed 8 kg.
6. The game will start at the count of 3 given by referee followed by whistle. In case a team starts its robot before the whistle, the game will be restarted and a team making this mistake for more than 3 times will be disqualified
7. The field diagram will be uploaded on the website soon.
8. The ball can be either dragged or pushed by the team.

9. Each goal scored by a team by rolling the ball on the ground will fetch the team 1 point.
10. The voltage at any point on the electrical connections should not exceed 12 V DC.
11. The game will last for 5 minutes
12. Maximum 2 members per team will be allowed to remain close to field for operating the robots.
13. In case of any discrepancy the final decision rests in the hands of co-ordinators.
14. Any act of misbehaviour or misconduct will lead to immediate disqualification of the team
15. The robots are not allowed to use grippers or actuators which are intended to harm the opponent's robot.
16. The competition is aimed at making the game a friendly football match rather than a robot war.