

A NATIONAL LEVEL TECHNICAL FESTIVAL

# Technokruti

2K25

**20<sup>th</sup> and 21<sup>st</sup> February 2025**

Event Details of  
Mechanical Engineering Department  
**“Mechno-Mania”**

1. Lathe War
2. CAD Cracker
3. Paper Presentation
4. Junk Yard
5. Robo Football
6. Freefire Max Battle

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Organized By



SITARAMBHAI NARANJI PATEL INSTITUTE OF  
TECHNOLOGY & RESEARCH CENTRE, UMRAKH  
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# “Mechno-Mania”

## Lathe War

|                     |             |
|---------------------|-------------|
| Event Type          | Group Event |
| No. of Participants | Maximum 2   |
| Registration Fee    | Rs. 90      |
| Event Location      | M5          |

### Rules

- Lathe war is a technical event.
- Maximum 2 participants in group, individuals can also participate
- Work pieces will be provided to participants.
- Group competition will be carried out between the participants and the winner will be declared according to the work done on the workpiece.
- Participants have to develop the final product based on the drawing provided to them with accuracy and best surface finish in a certain time limit.
- Participants have to take care of all safety.

# “Mechno-Mania”

## CAD Cracker

|                     |                  |
|---------------------|------------------|
| Event Type          | Individual Event |
| No. of Participants | 1                |
| Registration Fee    | Rs. 50           |
| Event Location      | A30              |

### Rules

- This is a technical event and also an individual event.
- Participants have to prepare the 3D model with all proper notation
- Participants will be allowed to prepare the model in Solid Works software only
- Different kinds of views of object will be given to the participants.
- 45 min will be provided to the participant to prepare the model in Solidworks.
- The best work will be declared as the winner only when he/she completes the modelling on time.

# **“Mechno-Mania”**

## **Paper Presentation**

|                     |             |
|---------------------|-------------|
| Event Type          | Group Event |
| No. of Participants | 2           |
| Registration Fee    | Rs. 70      |
| Event Location      | W4          |

### **Rules**

- Participants have to arrive on time at the venue/location.
- Participants can decide there on abstract and can prepare.
- Participants have to give their presentation on the scheduled date.
- Each participant will be given 5 to 6 minutes to present their idea.
- Maximum number of participants in a team may not be more than 2.
- Participants should upload their abstracts in the registration link.
- The Decision of Judges will be final.

# “Mechno-Mania”

## Junk Yard

|                     |             |
|---------------------|-------------|
| Event Type          | Group Event |
| No. of Participants | Maximum 4   |
| Registration Fee    | Rs. 120     |
| Event Location      | M3          |

### Rules

- Maximum number of participants must not exceed 4 in a group.
- The event is an “on-spot design & fabrication” challenge where the teams will be tested on their ability to think outside the box and come up with solutions from the junk given to them. Junkyard is an event based on creativity, conceptual application, presence of mind, technical knowledge, etc.
- Participants have to make a model using the materials provided with the use of their creativity, presence of mind, and engineering skills.
- All participants should have completed the given task within a time limit.
- Criteria of winner will be described prior to competition.

# “Mechno-Mania”

## Robo Football

|                     |             |
|---------------------|-------------|
| Event Type          | Group Event |
| No. of Participants | Maximum 2   |
| Registration Fee    | Rs. 100     |
| Event Location      | W12         |

### Rules

- Maximum number of participants must not exceed 2.
- Participants have to prepare the robots of the given dimension only. The bot must fit into a cube of (35 X 35 X 30) cm at all times. It may not expand beyond these dimensions during any point of the match.
- An onboard battery with a voltage rating not exceeding 24V is allowed.
- The bot can have a maximum clearance of 3 cm from the ground level. This is to ensure the ball doesn't go under the bot. The dimension of the ball is of the tennis ball.
- The winner will be declared according to the maximum number of goals made in a limited time.

# “Mechno-Mania”

## Freefire Max Battle

|                     |             |
|---------------------|-------------|
| Event Type          | Group Event |
| No. of Participants | Maximum 4   |
| Registration Fee    | Rs. 200     |
| Event Location      | W12/B       |

### Rules

- Number of participant : 4
- Participants have to use a phone or tablet and can use their personal mobile network.
- This is a non - technical game based on free fire “battle royale”, So the room ID and password will be given by the event coordinator
- Round 1 will consist of two sets of games of battle royale in squad mode.
- In round 1, the top 4 teams in each game will proceed to round 2.
- The round 2 winner will be awarded with the winning prize.