

SUDHEE 2025

Department of Mechanical Engineering

MECHANICA-2025

ABOUT MECHANICA-2025



MECHANICA is the two-day National Level Technical Fest of the **Department of Mechanical Engineering**, organized as a part of **Sudhee-2025**, the **Technical Fest of CBIT**. Mechanica'25 featured **10 exciting events** during the academic year **2024-2025**. The fest took place on the **4th and 5th of March 2025**, drawing **over 600 participants** from various institutions.

SUPPORT FROM COLLEGE

The College management, Principal, Head of the Department, and Sudhee Core Committee provided constant encouragement and support, ensuring the successful execution of the fest.

FACULTY COORDINATORS

- 1. Sri. V. Jaipal Reddy**
(Assistant Professor, MED)



- 2. Sri. K Gurubrahamam**
(Assistant Professor, MED)



STUDENT COORDINATORS

- 1. Mr. P Gowtham**



2. Mr. K Aawish



Student Coordinator's

1) Ms. M Sreehitha



2) Mr. Chidananda Krishna



3) Ms. G Harshini



Details:

INAUGURAL CEREMONY

The opening ceremony of Mechanica'25 was conducted offline at 11:00 AM on 4th March 2025. The event was inaugurated by Dr. R.P. CHOWDARY, Head of the Department (MED). The speaker Sireesha Baile, Deputy Manager BHEL, HYD. Then addressed the crowd. The technical fest was officially declared open.

Speaker: Sireesha Baile, Deputy Manager BHEL, HYD

Topic: " Defence, Industrial Automation, and Aerospace."

Event Dates: 4th March 2025 and 5th March 2025

Event Website: https://linktr.ee/Mechanica_2025

Guest Speaker:



Name in full: Sireesha Baile

Area of Specialisation: " Defence, Industrial Automation, and Aerospace."

Work Experience

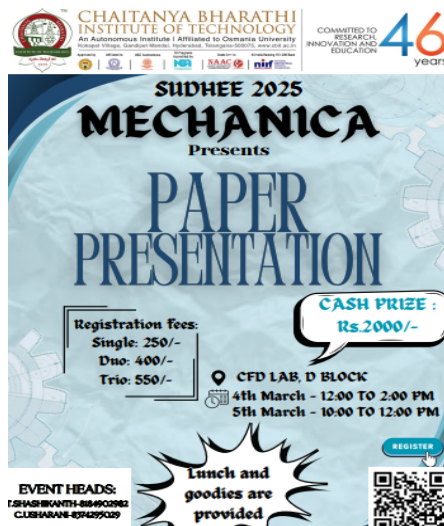
Her illustrious career began with **Tata Advanced Systems** before she moved to **Bharat Heavy Electricals Limited (BHEL)**, where she has been contributing significantly for over a decade. She has earned numerous accolades, including the **Chevening CRISP Fellowship from Oxford University**, the **Young Engineer Award 2022** from the Institution of Engineers, and the **Outstanding Alumni Award 2022** from CBIT.

She holds **six patents and nine copyrights**, has pioneered the development of **Digital Twins for real-time monitoring using Artificial Neural Networks**, and has spearheaded multiple groundbreaking projects in **e-mobility, defence, and power-plant equipment**. Her passion for **sustainability, climate change, women in STEM, and leadership** makes her an inspiration to all of us.

- **Technical Events**

- 1. Paper Presentation**

Description:



It is the platform to vent your ideas in the form of well-integrated and intriguing presentation. It gives a unique opportunity to the youngsters to express and compete in the presence of jury. There are two stages in this event where in the first stage is submission of abstract and the next one is the final round where students must present in front of judges. Evaluation is done by highly qualified Judges.

- **Date & Time:** March 4th – 12:00PM to 2:00PM,
March 5th - 10:00 AM to 12:00 PM
- **Venue:** CFD Lab, Mechanical Department
- **No. of Papers Received:** 53
- **Event Heads:**
 1. Thurpati Shashikanth
 2. Chandaka Usharani
- **Winners:**
 1. Mohd Abdul Faiz
 2. Sindhura Dastrala
 3. Gugulothu Navya
- **Cash Prize:** ₹2000

- **External Jury**

1. Dr. Somala Madhava Reddy (Lecturer, MGIT, HYD.)
2. Dr. J. Anjaneyulu (Lecturer, VCE, HYD.)

- **Internal Jury**

1. Dr.Md. Aleem Pasha (Assistant Professor, MED, CBIT)
2. Dr.Ch. Indira Priyadarsini (Assistant Professor, MED, CBIT)
3. Dr. Nagini Yerramsetty (Assistant Professor, MED, CBIT)
4. Sri.T.N. Aditya (Assistant Professor, MED, CBIT)

- **Photos**



2. Poster Presentation



Description:

Poster presentation is the contest which may help one to portray their creativity in relevance to their technical knowledge. Consider it to be same as a paper presentation, poster presentation involves making a digital poster which depicts ones idea and research rather than a Power Point presentation. There are two stages in this event wherein the first stage involves brief description of their idea and the next being the final round wherein students have to present their posters with enthusiastic explanation to the audience and judges. Evaluation is done by highly qualified judges.

- **Date & Time:**

March 5th - 1:00 PM to 3:00 PM

- **Venue:** CFD Lab, Mechanical Department

- **No. of Posters:**06

- **Event Leads:**

1. Koppishetti Meher Pavan
2. M. Jahnavi

- **Winners:**

1. Sai Chandana Vesireddy
2. Mananvi Gardas

- **Cash Prize: ₹2000**

- **Internal Judge**

1. Dr. Inturi Vamsi (Assistant Professor, MED, CBIT)
2. Smt. V.Sandhya (Assistant Professor, MED, CBIT)
3. Smt. Jyothirmayi Narne (Assistant Professor, MED, CBIT)
4. Dr. Kiran Kumar Amireddy (Assistant Professor, MED, CBIT)

- **Photos**



3. AutoCAD Quiz



A technical quiz testing knowledge in **AutoCAD** and drafting techniques.

- **Date & Time:**

March 4th- 1PM to 3PM

- **Venue:** CAD&D Lab, A Block

- **No. of Participants:** 23

- **Event Leads:**

1. Thaviti Divya Sree
2. Maanya Roy

- **Winners:**

- Ganta Anvesh

- **Cash Prize:** ₹1000

- **Internal Judge**

1. Dr. Y. S. Kannan (Assistant Professor, MED, CBIT)
2. Sri. P. Surendar Reddy (Assistant Professor, MED, CBIT)

- Photos



4. Entrepreneurship Workshop

Description:



We are the MECHANICA, present you with our flashing event Entrepreneur workshop who doesn't have any idea about entrepreneurship ship? This is the best platform to learn by participating in our entrepreneurship Workshop. This workshop consists of a seminar on entrepreneurship and team management. In this corporate world people used to work as a team. So, for maintaining team spirit we are conducting team management games. There are some exciting games.

- **Date & Time:**

March 5th – 11AM to 1PM

- **Venue:** D-102, MED

- **No. of Participants:**21

- **Event Leads:**

1. Samudrala Dakshitha
2. Mahaswi

- **Winners:**

1. Lingidi Varsha

- **Cash Prize:** ₹1000

- **Internal Judge**

1. Sri.D. Ravi (Assistant Professor, MED, CBIT)
2. Dr. Rahul (Assistant Professor, MED, CBIT)
3. Sri, Chintireddy Sharath Reddy (Assistant Professor, MED, CBIT)

- **Photos**



5. Mecha Treasure Hunt



Description:

Ignite Your Adventure! Gear up for the thrill of a lifetime at the "Quest for the Hidden Relic"! Whether you're a solo explorer or prefer dynamic duos, immerse yourself in an unforgettable journey across our campus. Solve mind-bending puzzles, uncover secrets, and seize the chance to discover the relic that unlocks academic success.

- **Date & Time:** March 4th 1PM to 3PM (Solo)
March 5th 10AM to 12PM(Duo)

- **Participants:** 58

- **Event Leads:**

1. Akshara Barigela
2. Konkipudi Akash

- **Winners:**

1. Konkipudi Poojitha- Solo
2. M Jeevan - Duo
3. Uday Kiran - Duo

- **Cash Prize:** ₹1000(Solo)

₹2000(Duo)

- Photos



6. CarpenDuo

Description:



In this fun yet challenging event, two participants in a team will have **one hand each tied together**, leaving them with only their free hands to complete the task. Their challenge is to **assemble wooden puzzles** using coordination, communication, and problem-solving skills. The team that completes the puzzle in the shortest time wins.

- **Date & Time:** March 4th – 1PM to 3PM
- **Participants:** 26
- **Event Leads**
 1. S. Arun Kumr
 2. E. Siddu Nayak
 3. K. Abhishek Varma
- **Winners:**
 1. Kukkamudi Venkatesh
 2. Lavuri Simhadri
- **Cash Prize:** ₹1000
- **Internal Judges**
 1. **Dr. L. Suresh Kumar** (Assistant Professor, MED, CBIT)

2. **Smt. D S Madhuri** (Assistant Professor, MED, CBIT)

3. **Dr. Ashutosh Sahu** (Assistant Professor, MED, CBIT)

- **Photos**



7.SolidWorks Challenge



Description:

In this competitive CAD modelling event, participants are shown a SolidWorks model, and their challenge is to replicate it as quickly and accurately as possible. The competition tests their speed, precision, and design skills in SolidWorks. The winner is determined by highly qualified judges based on accuracy, design correctness, and time taken.

- **Date & Time:** March 4th - 1 PM to 4 PM
- **Venue:** CAD/CAM Lab, Mechanical Department
- **No. of Participants:** 42
- **Event Leads:**
 1. T.R.D. Prabhas
 2. L. Sandeep
- **Winners:** 1. Peddireddy Venkata Sravan Reddy
- **Cash Prize:** ₹1500

- External Judge:
 1. Sarvotham Ravu Jakkam (Executive – Logical Solutions)
- Internal Judges:
 1. Dr. P. Anjani Devi (Assistant Professor, MED, CBIT)
 2. Dr. P Rama Lakshmi (Assistant Professor, MED, CBIT)
 3. Dr. Venkata Sushma Chinta (Assistant Professor, MED, CBIT)
- Photos



8. ToollockHolmes

Description:

In this exciting event, participants must identify various mechanical tools based on their shape, function, or a given set of clues. The event challenges their technical knowledge and observational skills. The participant who correctly guesses the most tools in the shortest time wins the competition.

- **Date & Time:**

March 5th - 1 PM to 2PM

- **Venue:**

Near Mechanical Lane

- **No. of Participants:** 41

- **Event Leads:**

1. Katukuri Salman Raju
2. Vanaparthi Deepthi

- **Winners:**

1. Thaviti Divya sree

- **Cash Prize:** ₹700

- **Internal Judges:**

1. Smt. Ipsita Mohanty (Assistant Professor, MED, CBIT)



2. Smt. K.N.V Sreedevi (Assistant Professor, MED, CBIT)

9.Mechanical Maze



Description:

In this engaging event, participants must **navigate a ball through a complex mechanical maze** using levers, gears, and obstacles. Precision, patience, and problem-solving skills are key to maneuvering the ball to the finish line. The participant who **completes the maze in the shortest time** wins the competition.

- **Date & Time:** March 4th 11AM to 4PM
March 5th 10AM to 3PM
- **Venue:** Near House Wiring Lab
- **Participants:**26
- **Event Leads:**
 1. Avadhanam Jitin Karthik Krishna
 2. Devarakonda Rohan
 3. N Akhil Reddy
- **Winners:** 1. Koripelly Kishore Reddy
- **Cash Prize:** ₹1000
- **Internal Judges**
 1. Dr B. V. S. Rao (Assistant Professor, MED, CBIT)

2. Dr. S. Narasimha Kumar(Assistant Professor, MED, CBIT)

- Photos



10.Gravity Car



Description:

In this thrilling event, participants release their gravity-powered cars from the top of a slope and watch as they travel down the track without any external force. The challenge is to design a car that moves smoothly and efficiently without stopping, flipping, or veering off course. The winner is determined based on stability, distance covered, and overall performance.

- **Date & Time:** March 5th 2025
- **Venue:** Generator Room
- **No. of Participants:**25
- **Event Leads:**
 1. G.Saikrishna
 2. K.Sai teja
- **Winners:**
 1. Rubendra
 2. Prasad
- **Cash Prize:** ₹2700

- **Internal Judges:**

1. Dr. Hari Krishan Yadav (Assistant Professor, MED, CBIT)
2. Smt.R. Navaneetha (Assistant Professor, MED, CBIT)

- **Photos**



MECHANICA-2025 POSTER



**CHAITANYA BHARATHI
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DEPARTMENT OF MECHANICAL ENGINEERING
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4th-5th MARCH

✕ PAPER PRESENTATION	✕ GRAVITY CAR
✕ POSTER PRESENTATION	✕ TREASURE HUNT
✕ MECHANICAL MAZE	✕ CARPENDUO
✕ TOOLOCK HOLMES	✕ AUTO- CAD QUIZ
✕ ENTREPRENEURSHIP WORKSHOP	✕ SOLIDWORKS

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