



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**42**  
years

## Sudhee 2021

### Department of Mechanical Engineering

## Mechanica 2021

#### About Mechanica

Mechanica is the two-day National-Level Technical Fest of Department of Mechanical Engineering organized as a part of Sudhee 2021, the Technical Fest of CBIT. Mechanica has organized 7 ecstatic events during the year 2020-2021. The fest was conducted on the 3rd and 4th of March, 2021 virtually. We had **237** participants altogether.

#### Support from College

The College Management, Principal, Sudhee Core Committee, Head of the Department have encouraged, supported and guided us in this endeavor.

#### Faculty Coordinators:

1. Dr. S. Solomon Raj, Associate Professor



2. Sri. P. Kiran Kumar, Assistant. Professor



## Student Coordinators:

1. Vignan Babu. D



2. Kaleemullah. M



3. Dheeraj. N



## DETAILS ABOUT THE EVENT

### Inaugural Ceremony

The Opening Ceremony of Mechanica, was conducted online at 11:30 AM on 3rd March, 2021. The ceremony was presided over by the Head of the Department, Mechanical Engineering, Professors, faculty Coordinators and faculty members. The speaker, Dr.L.Siva Rama Krishna, then addressed the crowd. The conference was officially declared open.

Speaker: Dr. L.Siva Rama Krishna

Topic: Innovative Application of 3D printing

Event Dates: 3rd and 4th March 2021

Event Website: [HOME | Mechanica2021 \(wixsite.com\)](https://www.mechanica2021.com)

## Guest Speaker



**Dr. L. Siva Rama  
Krishna.**

**Associate Professor  
MED, OUCE.**

### **Profile:**

**Dr. L. Siva Rama Krishna,** is presently working as Associate Professor in the Dept. of Mech. Engineering, University College of Engineering(A), Osmania University. Presently he is **working as Joint Director, Centre for Product Design, Development and Additive Manufacturing (A centre of Excellence established under RUSA 2.0)**, Nodal Officer PMSSS (J&K), Single Point of Contact for Local Chapter SWAYAM- NPTEL, NSS program officer, and Faculty Adviser for M.E course on DFM. Course. He has also worked as Joint Director of Evaluation Examination Cell, University College of Engineering, Osmania University.

### **Some Professional milestones:**

He is Reviewer for many reputed journals like Institute of Engineers India Series C journal Springer Series, British Journal of Medicine and Medical Research, etc. He has won the best research paper award in the International Conference on Recent Innovations in Engineering and Technology at Bhubabeswar. He has guided more than 60 ME projects and presently guiding 9 Ph.D students. He has delivered 85 guest lecturers in various UGC & AICTE refresher courses, webinars, in house training programs of prestigious organizations like BHEL (R&D), BDL etc. He has also organized various STTP's, International Conferences, workshops etc. He works with **MDS Care Hospitals Banjara Hills, Yashodha Hospitals Secunderabad and Sri Sai Dental College, Mahbubnagr for solving various critical cases related Cranioplasty and Maxillofacial Surgeries.**

The schedule for the event was as follows:

## **Mechanica 2021 Inaugural Function**

### **Date & Time:**

**03-03-2021** 11:30 AM to 11:45 AM

### **Event 1: Guest Talk**

### **Date & Time :**

**03-03-2021 11:45 AM – 01 : 15 PM**

**Speaker:** Dr. L. Siva Rama Krishna

**Topic:** Innovative Application of 3D printing

**Audience:** 50 Count

### **Event Description :**

To uphold the enthusiasm and excitement of the students in emerging technologies in the field of Mechanical Engineering. We have come up with an industrial expert who will explain the scope of their studies in practical applications

The event will help the students to choose their career path by exercising every step, in relation to the future demanding skills.

### **Links:**

<https://drive.google.com/file/d/184dIDyPqsufOK58KXe6ZygjN-C4GtiEJ/view?usp=sharing>

### **Photos:**





## DEPARTMENT OF MECHANICAL ENGINEERING

### MECHANICA 2021

#### Guest Talk

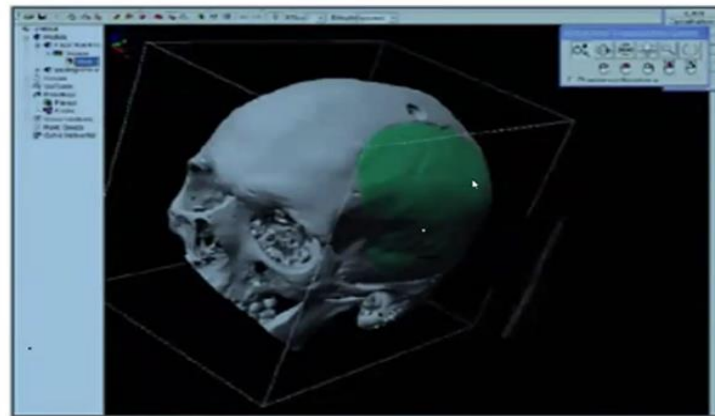


**Dr. L. SIVA RAMA KRISHNA**

Prof, MED, OUCE

INNOVATIVE APPLICATION OF 3D PRINTING

+42



visualization of 3D Model of the Skull attached with Implant



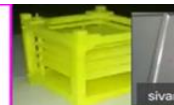
+46

**NATIONAL LEVEL STUDENT TECHFEST  
"MECHANICA"**  
Organized by  
Dept. of Mech. Engg., CBIT Hyderabad  
(03-04, March, 2021)

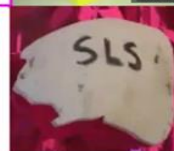
## INNOVATIVE APPLICATIONS OF 3D PRINTING



By  
**Dr. L.SIVA RAMA KRISHNA**  
Joint Director CPDDAM  
Associate Professor  
Dept. of Mechanical Engg.  
University College of Engg.  
Osmania University



sivaramakrishna.l siva



+47

## **Event 2: Paper Presentation**

### **Event 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 and Time:**

**03-03-2021 : 1:30 PM - 03:30 PM**

**04-03-2021 : 10:30AM - 01:30PM**

**No. of Participants: 23**

### **Faculty Committee/Jury:**

#### **Day 1**

**Dr. N. V. Srinivasulu**

**Dr. N. Janardhan**

#### **Day 2**

**Dr. K. Gurubramham**

**Dr. G Laxmaih**

### **Winners:**

**Prize-1 : KONAGALLA MANIKANTA, Department of Mechanical Engineering, SASI INSTITUTE OF TECHNOLOGY AND ENGINEERING.**

**Prize-2 : Rohit Rahul Godse & Suyog Sharnagat, Department of Mechanical Engineering, CBIT**

### **Links:**

[https://drive.google.com/file/d/1vhaOfO\\_j0NGVry4UTZdoVA621AozJLKJ/view?usp=sharing](https://drive.google.com/file/d/1vhaOfO_j0NGVry4UTZdoVA621AozJLKJ/view?usp=sharing)

[https://drive.google.com/file/d/1cZSbblA4tvjZztblrA6-Y-4\\_Coe1Xk\\_t/view?usp=sharing](https://drive.google.com/file/d/1cZSbblA4tvjZztblrA6-Y-4_Coe1Xk_t/view?usp=sharing)

[https://drive.google.com/file/d/1z-oWCYIR5NQ7oISUgCWrrpGq\\_R0O8aTk/view?usp=sharing](https://drive.google.com/file/d/1z-oWCYIR5NQ7oISUgCWrrpGq_R0O8aTk/view?usp=sharing)

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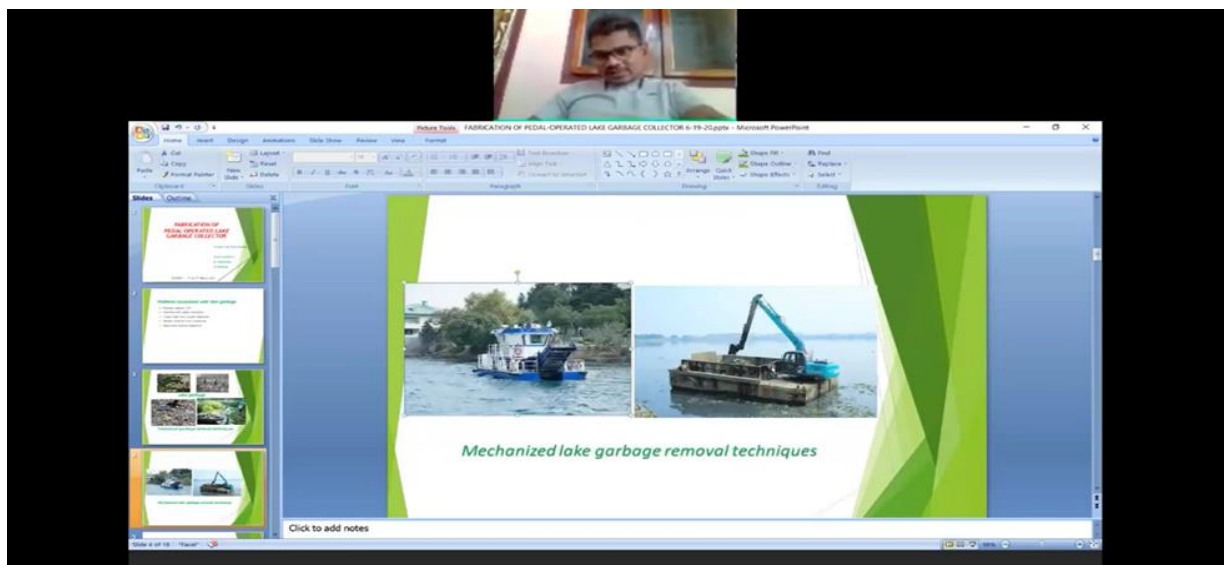
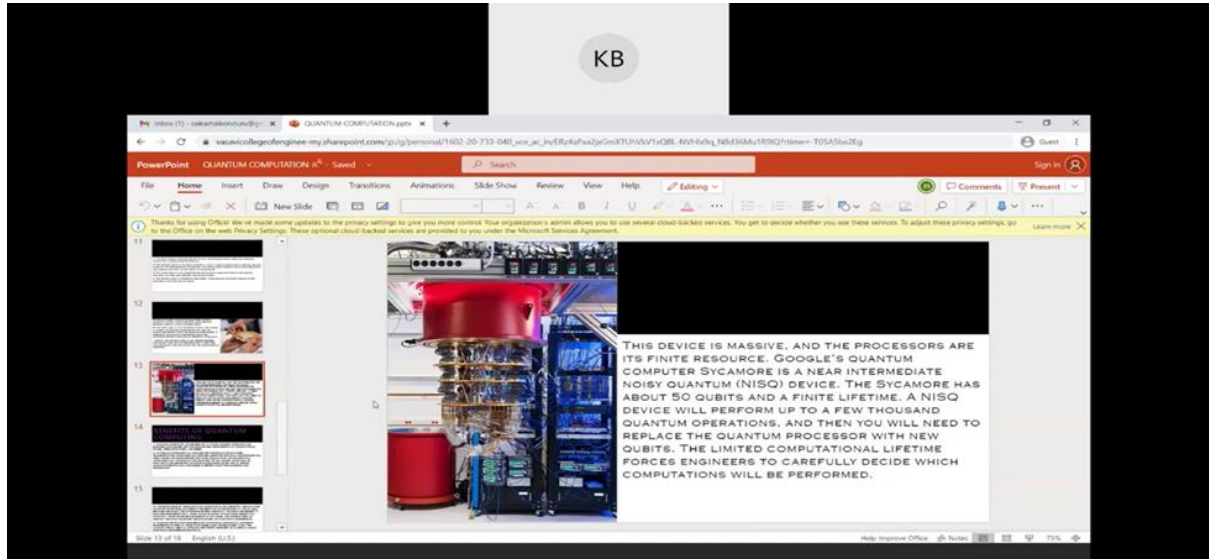
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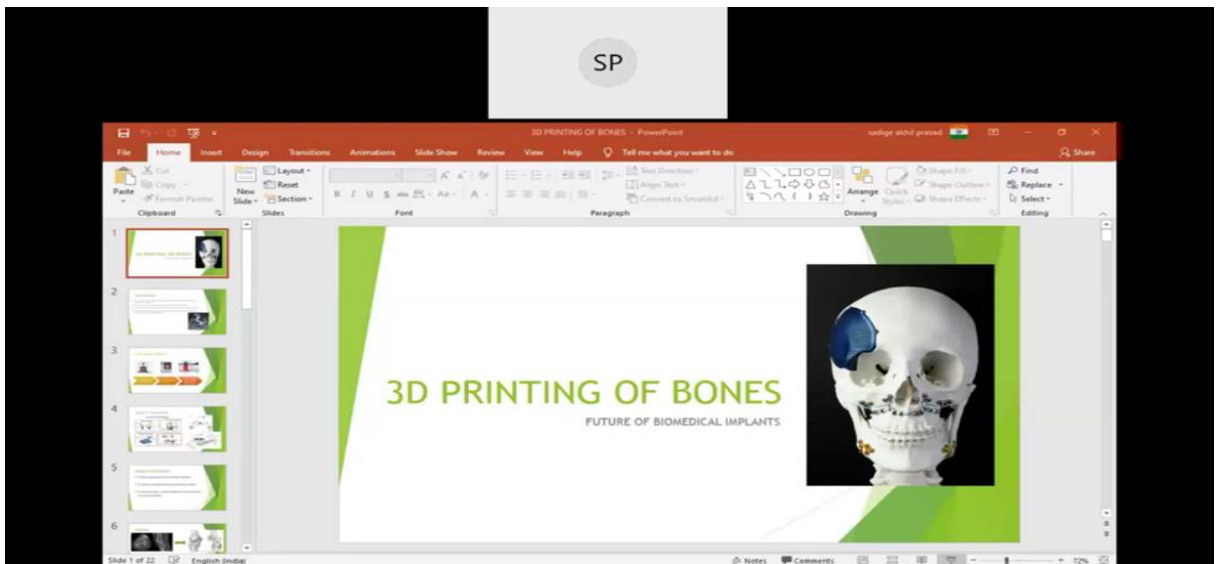
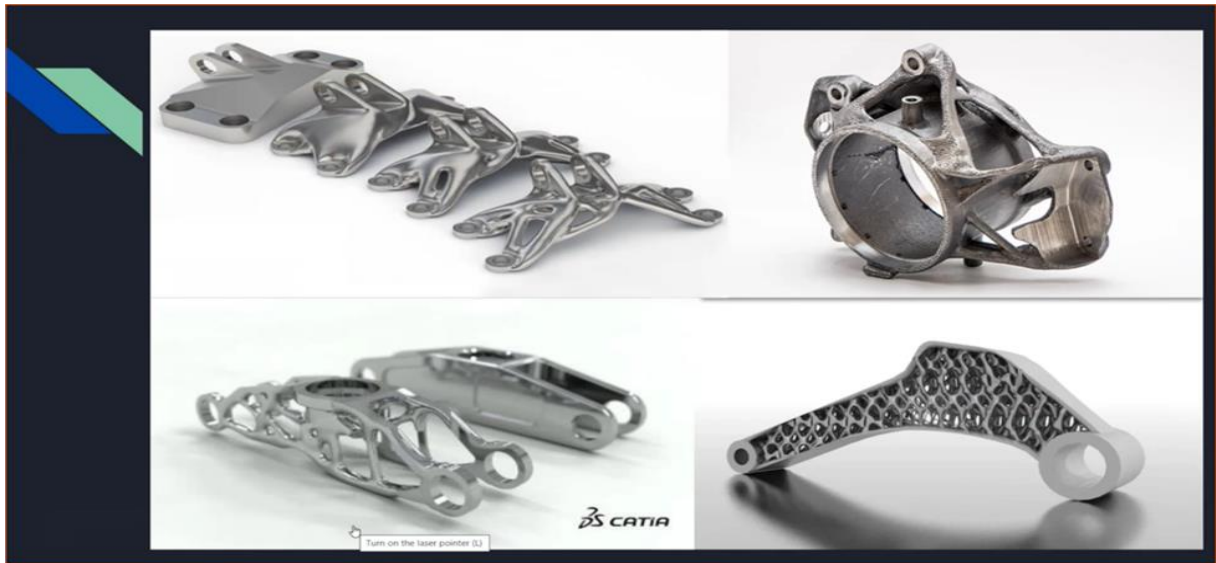


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<https://drive.google.com/file/d/1zEYqkpIQGTajoGiWfaXvL99uuIu4nTI3/view?usp=sharing>

## Photos:







### Event 3 : Quiz

**Event Description:** Quiz competition is a pursuit of trivial Knowledge, encouraging students to achieve academic excellence and Increase their awareness of the world around them.

There are two rounds, where preliminary round has 10 exciting questions along with Riddles and Fill in the Blanks based on the world of Engineering! Final round includes some Pictionary questions.

#### Date & Time:

03/03/2021 1:30 PM - 02:30 PM

04/03/2021 11:00AM - 12:00PM & 12:45PM - 01 : 15PM

**No. of Participants: 48**

**Faculty Committee/Jury: NA**

#### Winners:

Prize-1: Baladitya Boddu, Mechanical Engineering. CBIT

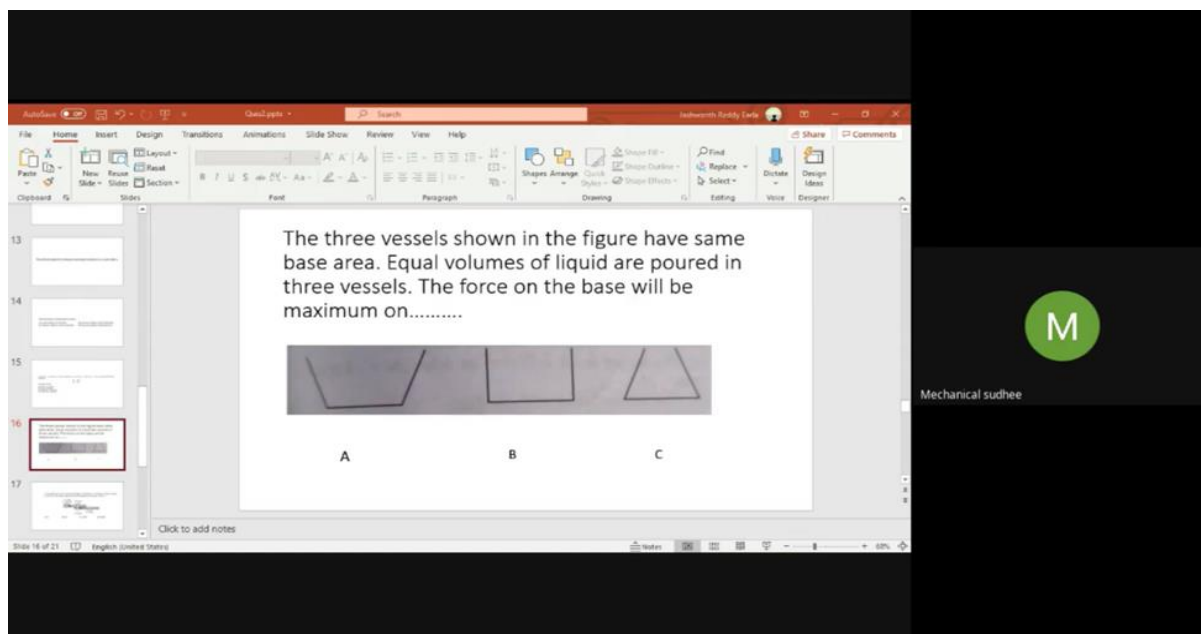
Prize-2: GANJI SAI RAM, Mechanical Engineering, CBIT

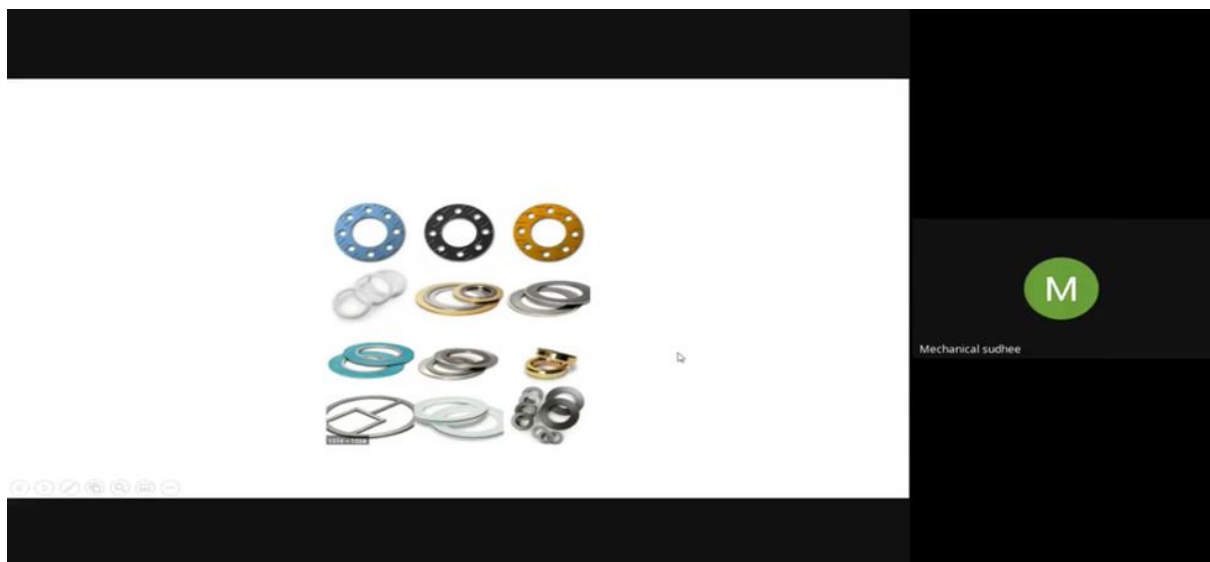
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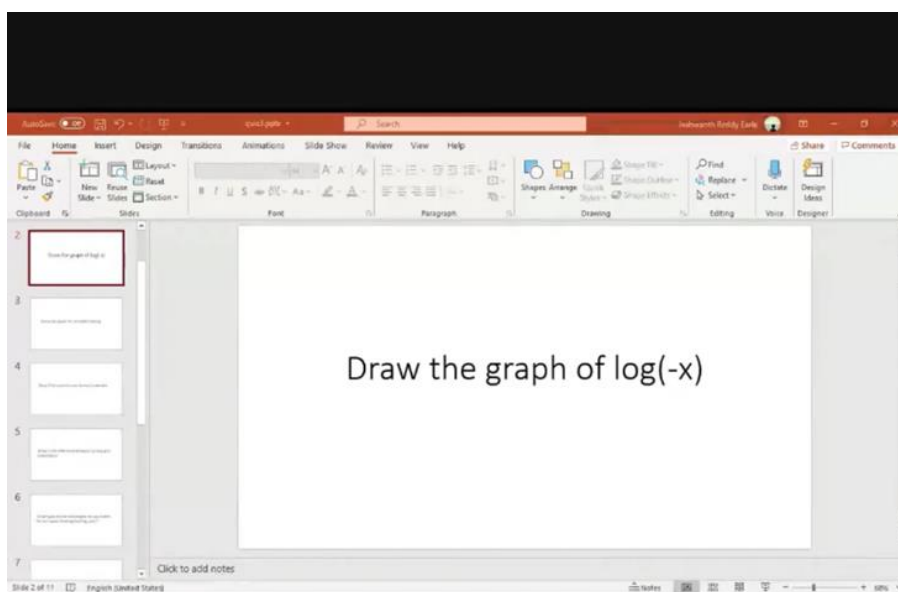
<https://drive.google.com/file/d/1OwheKxzOtjdWp-VEVfheE223kDwnn9t/view?usp=sharing>

#### Photos:





Mechanical sudhee



Sairam garij



Vignan Babu Dyavanapelly



Mechanical sudhee

## **Event 4 : Elocution**

### **Event Description**

Want to improve your communication skills and become more persuasive when you speak? A stage for lighthearted What If-s and Once upon a time not so long ago-s, we present to you an amazing opportunity to oil your lever of creativity and public speaking. This event consists of three rounds of exponential fun and laughter where content, fluency and vocabulary pedal the enthusiasm in a medium of profound story telling. Six topics will be given to the participants a day before for preparation and a dice is rolled at the time of the contest upon which the participant has to speak.

### **Time:**

**04-03-2021 : 11 : 30PM - 12 : 30 PM**

**No. of Participants: 09**

**Faculty Committee/Jury: Dr. K. Kishor**

### **Winners:**

**Prize1: Konagalla Manikanta, Department of Mechanical Engineering, SASI INSTITUTE OF TECHNOLOGY AND ENGINEERING**

**Prize2: M.S.SAWANTH, Mechanical Engineering, CBIT**

### **Links:**

[https://drive.google.com/file/d/16bcE97nMizVXYRKJXKlq5EVooeh\\_PP5-/view?usp=sharing](https://drive.google.com/file/d/16bcE97nMizVXYRKJXKlq5EVooeh_PP5-/view?usp=sharing)

<https://drive.google.com/file/d/1fvRB0wLRIpPTjzZChXZRV3sIPxDoKjZB/view?usp=sharing>

### **Photos:**





### **Event 5: CAD modelling**

#### **Event Description:**

Here is an amazing opportunity to showcase your skill on a unique and mostly used platform called Computer Aided Designing. It strives to explore the competency of young minds by giving their incredulous ideas a Shape, Form and helps in dynamic analysis of different worldly things.

In this event, the participants have to draw the 2D view of the given 3D Model, given by the organizing team within the stipulated time, which is decided prior to the event. The designs are evaluated based on the precision of design and the time in which the design is submitted.

**Date and Time:**

03/03/2021 1:30 PM - 02:30 PM

04/03/2021 10:00AM - 01:00PM

**No. of Participants: 20**

**Faculty Committee/Jury:** Smt. Ch. Indira Priyadarsini

**Winners:**

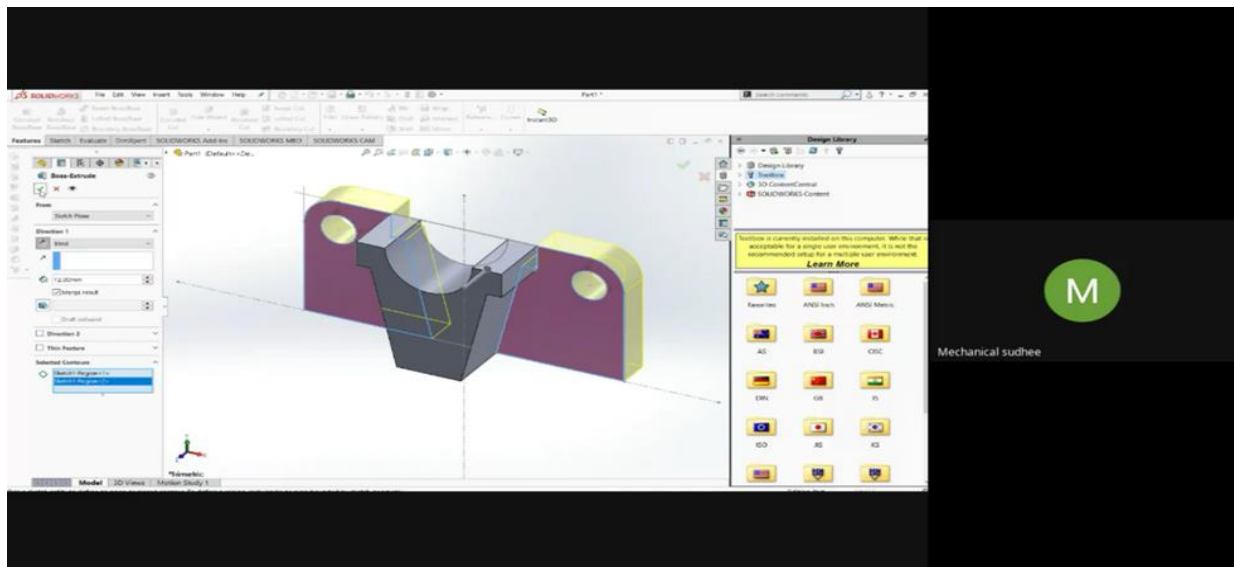
Prize1: Yashwanth K, mechanical Engineering, CBIT

Prize2: Jashwanth Reddy Earla, Mechanical Engineering, CBIT

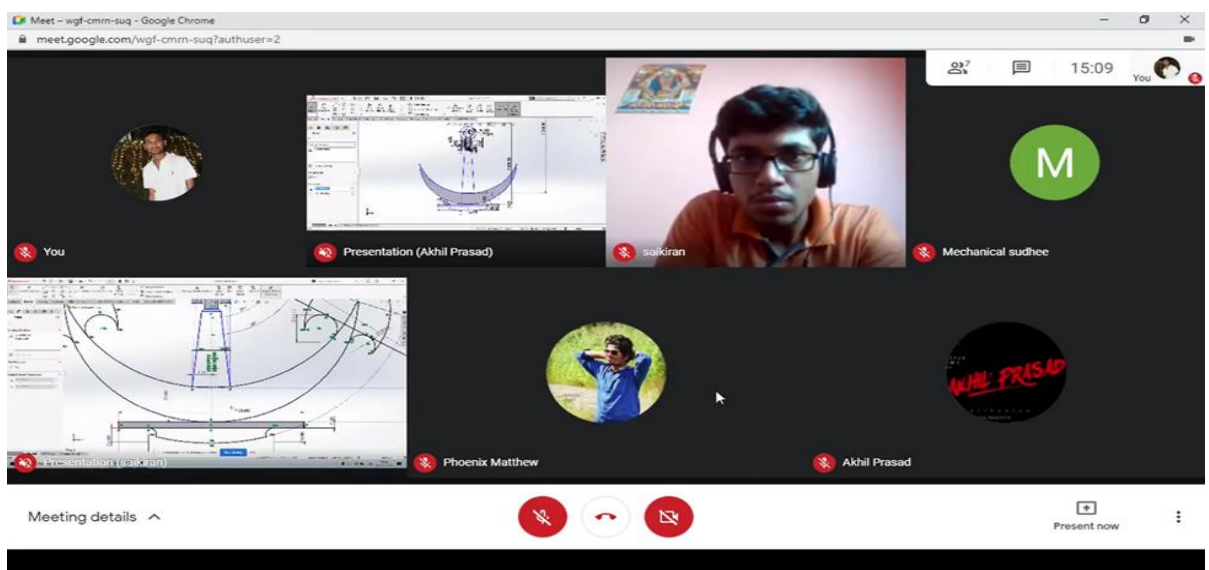
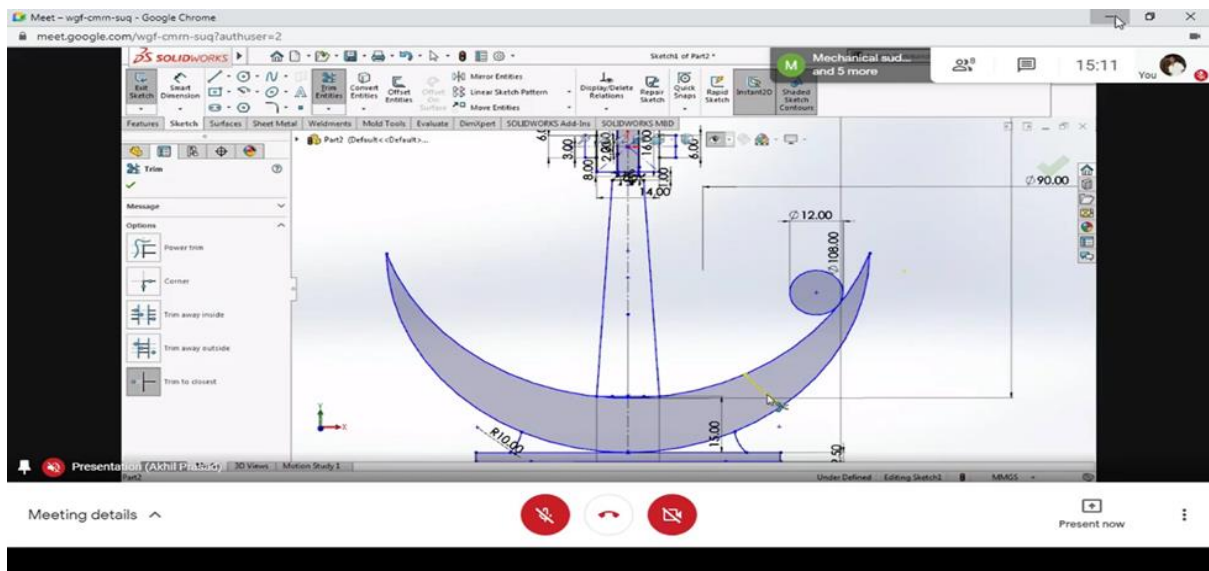
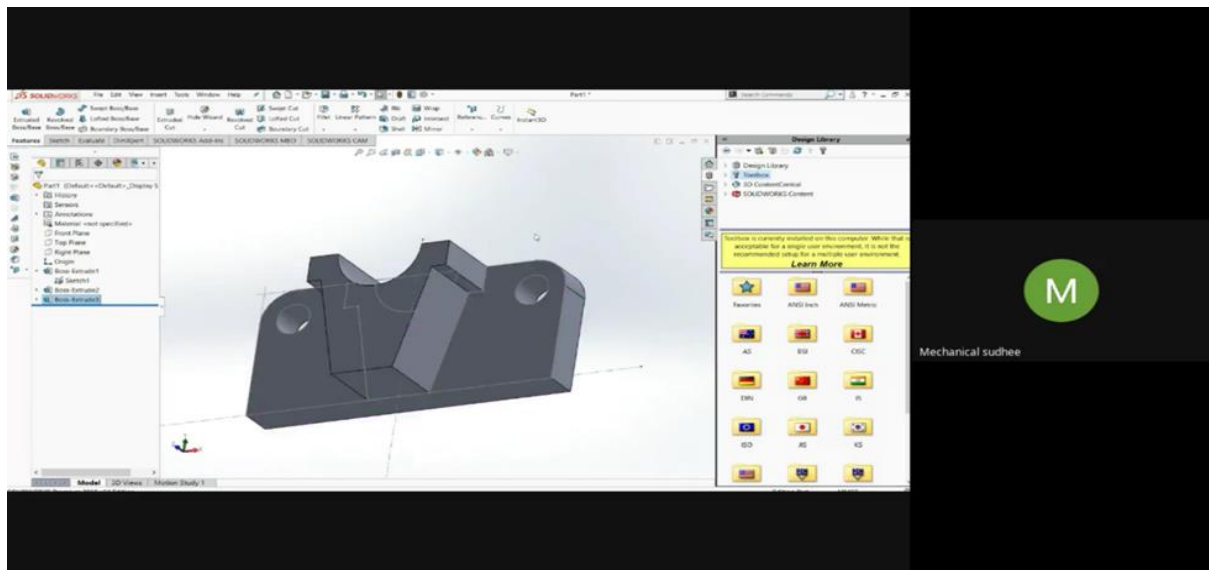
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<https://drive.google.com/file/d/1ILGdC1K3Zjc8mujiYGDJKnE63jzhllAY/view?usp=sharing>

**Photos:**





## Event 6: Poster Presentation

### Event 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. The event will be held online

### Date and Time:

04/03/2021 : 12 : 30PM - 01 : 30 PM

### No. of Participants: 09

**Faculty Committee/Jury:** Smt. Ch. V. Sushma

### Winners:

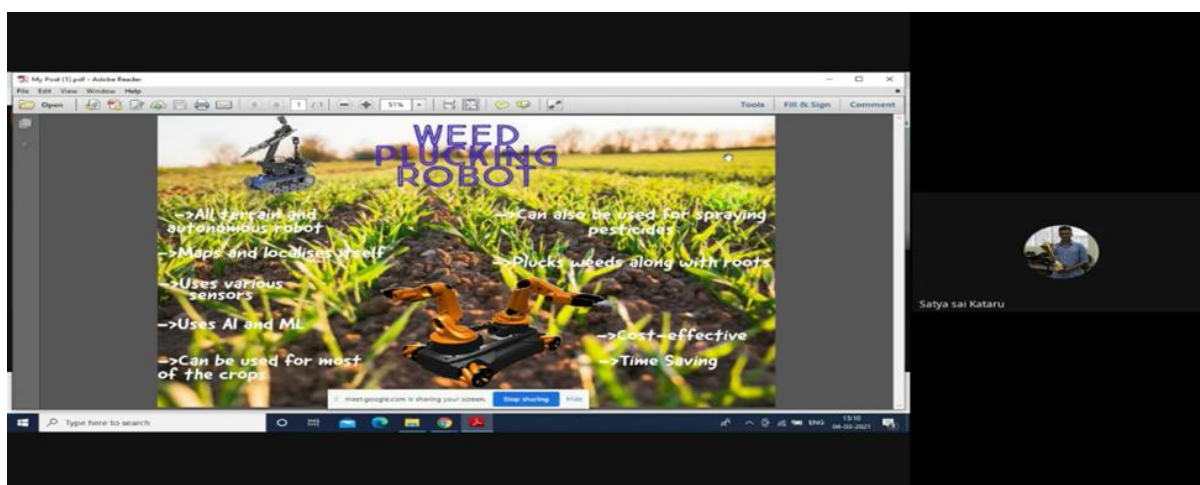
Prize1: KONAGALLA MANIKANTA, Department of Mechanical Engineering, SASI INSTITUTE OF TECHNOLOGY AND ENGINEERING

Prize2: Satya Sai Kataru, Mechanical Engineering, CBIT.

### Links:

[https://drive.google.com/file/d/1uvA-jjkAkaKx0CCbZ8w9t9\\_BZCePWf7I/view?usp=sharing](https://drive.google.com/file/d/1uvA-jjkAkaKx0CCbZ8w9t9_BZCePWf7I/view?usp=sharing)

### Photos:





## Event 7: Web Design

### Event Description:

Our moto of making people multi-talented and making self-reliable has come up come an exciting event in which we made participants to design a website that will help for their startups as a publicity tool, and we hope that our Mechanical engineers will be self-reliable to perform some basic IT tasks

### Date & Time:

04/03/2021 10 : 00 AM - 11 : 00 AM

### No. of Participants: 08 Teams

**Faculty Committee/Jury:** Smt. Ch. V. Sushma

### Winners:

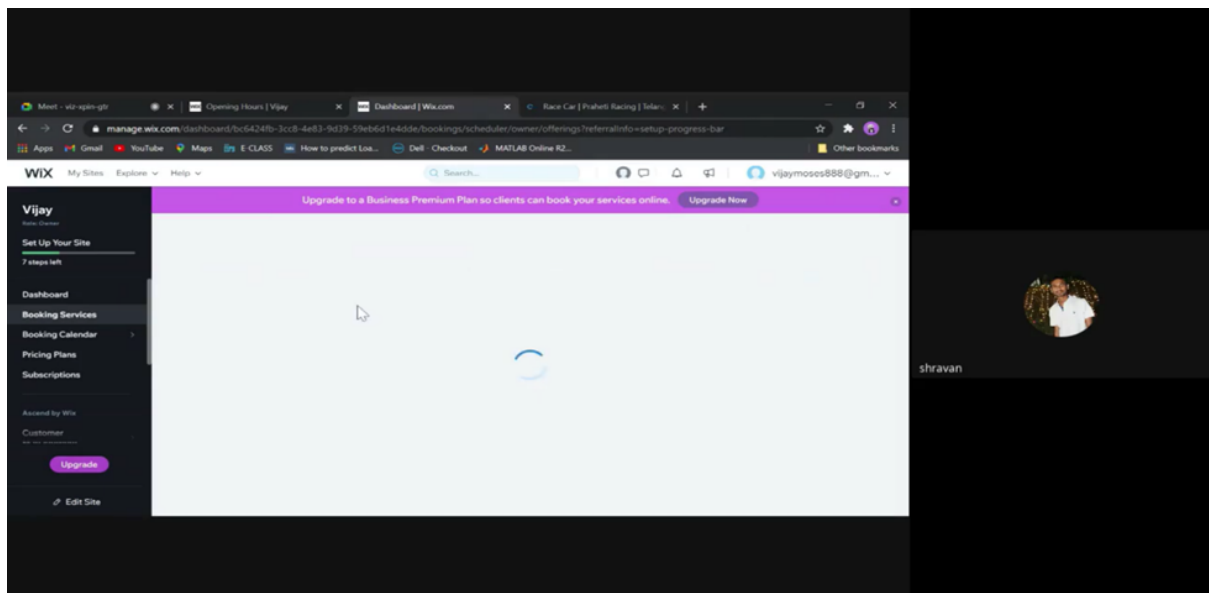
**Prize1 :** Shravan Jagadam, Mechanical Engineering, CBIT

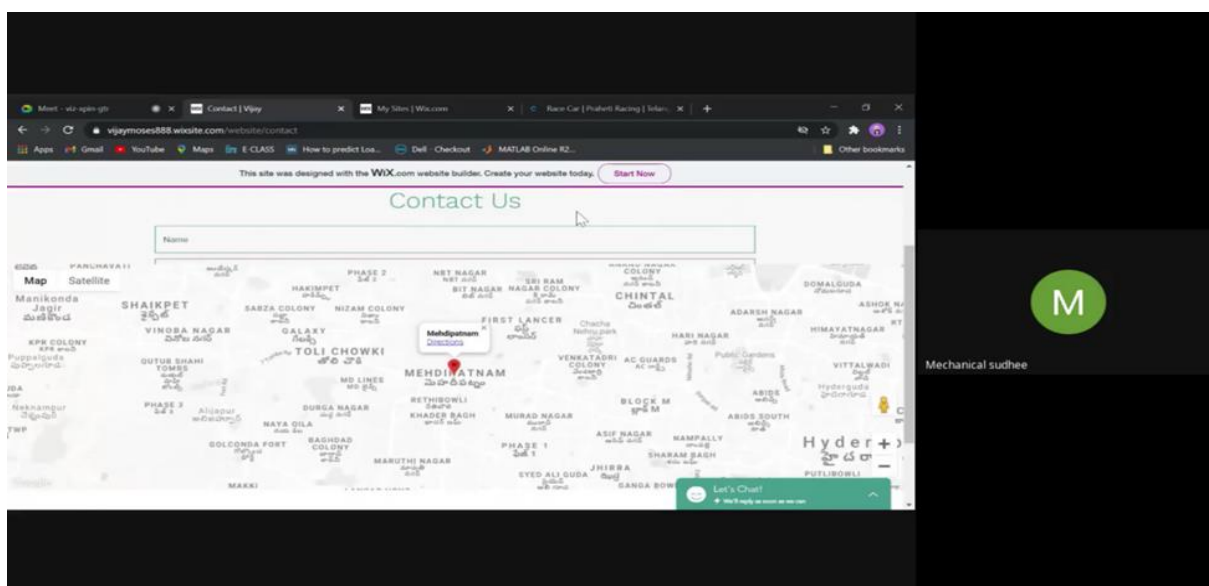
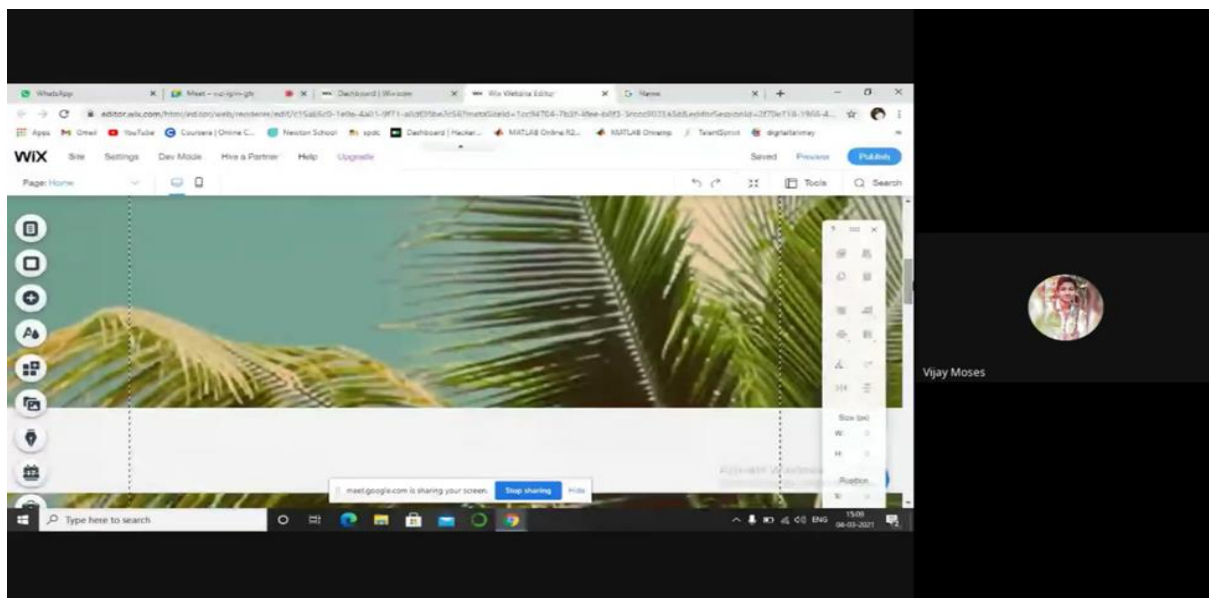
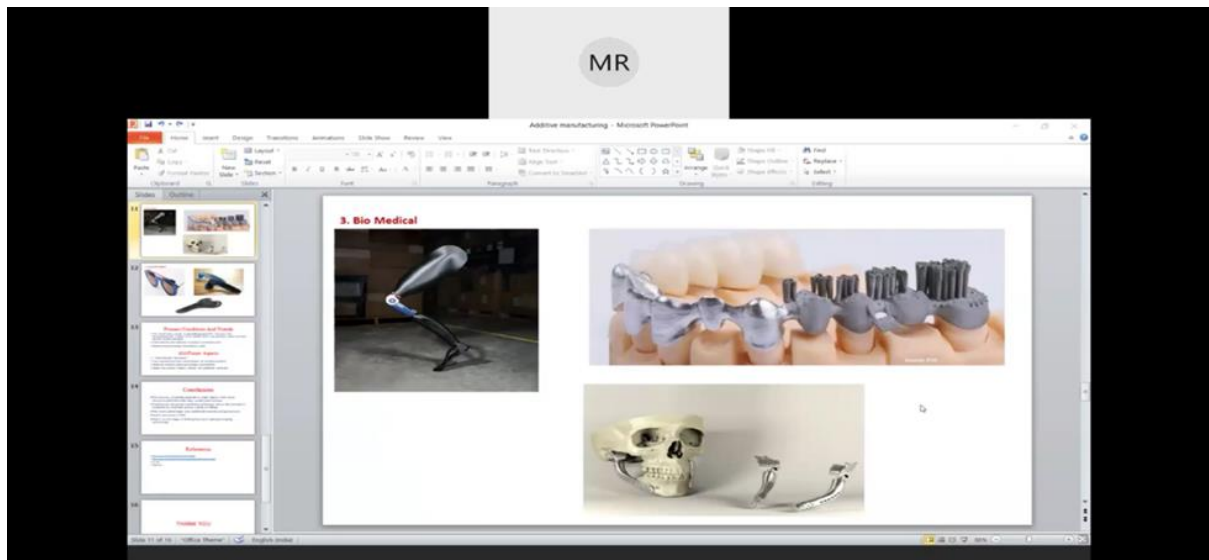
**Prize2 :** Vijay Raju, Chemical Engineering, CBIT

### Links:

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### Photos:







**Events Summary :**

S.No.	Event Name	No. of Participants ( Including Outside Participants )	No. of Outside Participants
1	Paper Presentation	23	04
2	Poster Presentation	09	02
3	Quiz	48	02
4	Elocution	09	01
5	CAD Modelling	20	01
6	Web Design	08	01
7	Guest Talk	50	02
8	Valedictory Ceremony	70	00
9	Total	237	13





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



COMMITTED TO  
RESEARCH,  
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**42**  
years

*Presents*

DEPARTMENT OF MECHANICAL ENGINEERING  
**MECHANICA**

**SUDHEE**  
**2k21**

NATIONAL  
LEVEL  
TECHNICAL  
SYMPOSIUM

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**MARCH 3&4**

**EVENTS :**

- PAPER  
PRESENTATION

- POSTER  
PRESENTATION

- QUADCOPTER  
PINNACLE

- CAD  
MODELLING

- ELOCUTION

- GUEST  
TALK

- WEB  
DESIGN

- QUIZ

- AND  
MUCH  
MORE  
FUN

**STUDENT COORDINATORS**

Vignan Babu : 9491597061

Kaleemullah : 9700950150

Dheeraj : 9490429916

**FACULTY COORDINATORS**

Dr.S.Solomon Raj

9949655133

Sri.P. Kiran Kumar

9346326852

📍 CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (GANDIPET)

## Valedictory Ceremony

The Valedictory Ceremony of Mechanical, was conducted online at 03:45 PM on 4th March, 2021. The ceremony was presided over by the Senior Faculty Dr. N.V. Srinivasulu, Professor, MED. The number of registrations for each event were announced. The faculty coordinator Dr. S. Solomon Raj, Sri P. Kiran Kumar then addressed the crowd. The Winners, Runners per event were announced. The program ended with vote of thanks.

## Mechanica 2021 Valedictory Ceremony

### Date & Time:

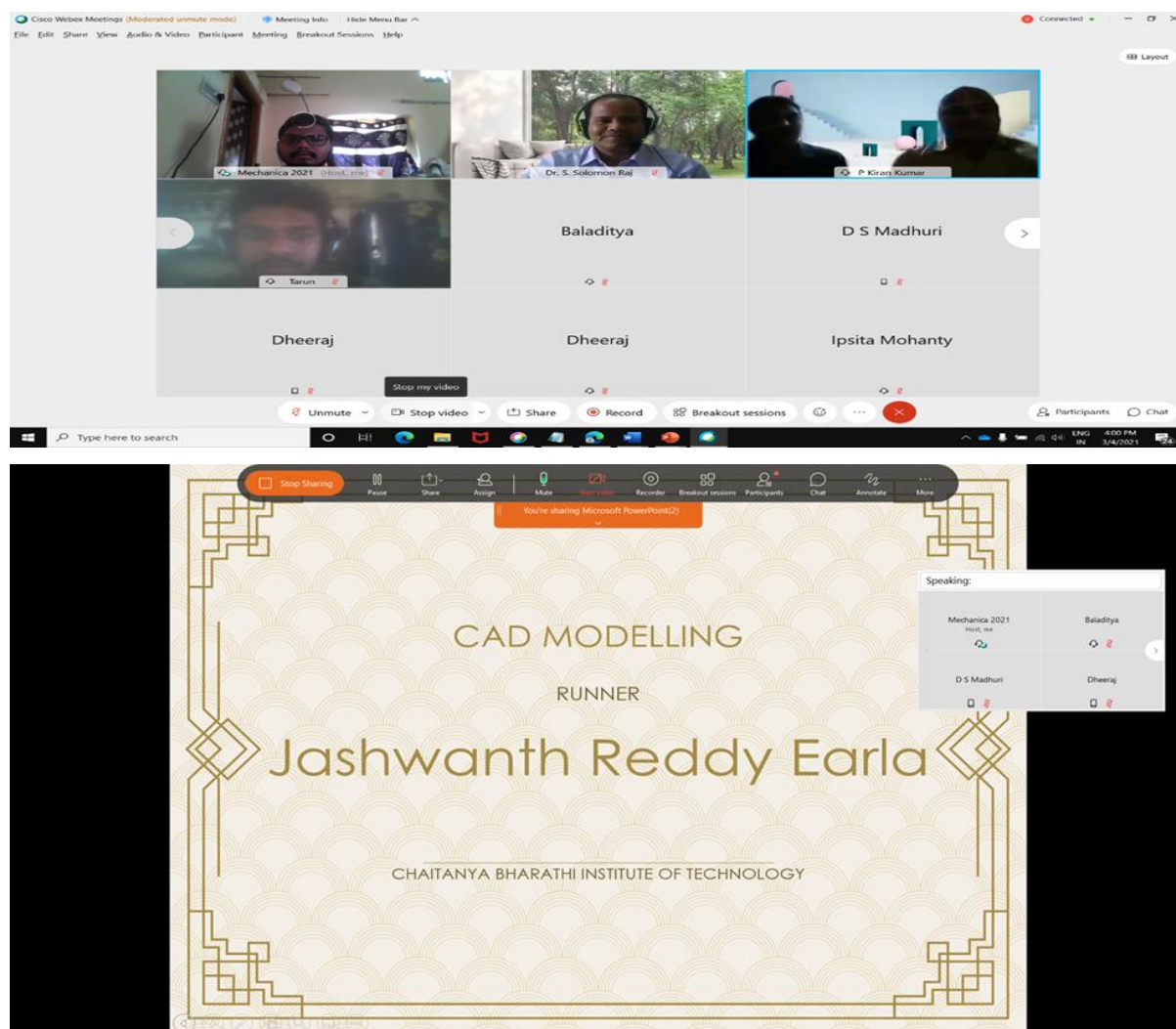
**04-03-2021** 03:45 PM to 04:15 PM

**Audience:** 70

### Links:

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### Photos:





## Demographics

The demographics for the event are as follows:

1. 13 other colleges have registrations like CMR, Sasi Institute of Technology & Engineering, Khammam Institute of technology and science, BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN, Vardhaman, St.Pious x degree, VASAVI COLLEGE OF ENGINEERING, Teegala Krishna Reddy college of engineering and technology.

## Vote of Thanks

We would like to thank CBIT Management, Principal, Head of Mechanical Engineering Department and all Teaching and Non-Teaching Staff of Mechanical Engineering Department for their help and support. We would also like to thank our speakers who gave the participants, the much-needed boost and their valuable guidance. We congratulate all the winners and all the participants.