

# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

5.1.3 Following Capacity development and skills enhancement activities are organized for improving students capability (8)

## 4. Awareness of trends in technology

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## A Brief Report on Guest Lecture

Topic: Webinar on '**5G Wireless Networks – A Detailed Survey**'

Date: 09 Feb 2022

Target Audience: VI Sem BE, I and III sem M.E (ESVLSI, CE) IETE ISF students

Platform: Virtual

Host: Yashmitha Jain, VIII Sem Student, ISF

Faculty Coordinators: Sri.T,Sridher, Asst Professor, ECE

Sri.P.Ranjith, Asst Professor, ECE

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The department of ECE under IETE Student Forum ( IETE ISF) organized a one day webinar on '**5G Wireless Networks – A Detailed Survey**' on 9<sup>th</sup> Feb 2022. The Technical webinar is started at morning 1:30PM. The program is hosted by the Yashmitha Jain, a student coordinator of ISF. Faculty from the department and 75 students from VIII sem (B.E), I<sup>st</sup> and III<sup>rd</sup> Sem ESVLSI (M.E), C.E(ME) and ISF members are attended the webinar.

The speaker of the webinar is Prof.C.Murali Former Vice President, IETE,Delhi.Former Chairman, Bangalore Section, has delivered this talk. The main important points in her lecture are development, scope, challenges, and research directions with respect to 5G networks with Generational Evolution, Spectra availability and possible usage for 5G deployment, existing cellular networks, 5G Vision, Major requirements, Overall Organization of Wireless Communications, 5G architecture, A paradigm shift, Requirements for 5G network architecture, Physical layer issues, MAC layer changes, Emerging 5G applications (D2D Communication, M2M Communication, IoT, IoV, Health Care and Wearable,...), Quality expectancy of 5G networks, Quality of Service (QoS), QoE for refined User Experience, SON for Quality Management, A sustainable future for 5G, Field tests, trials and simulations, Open issues and challenges, Energy Efficiency, Standardization, Future Research Directions, Leading 5G IoT Use cases, Radiation effects.

The webinar also covered the demonstration of hard ware equipment used in the designing of wireless sensor network. The webinar has planned about to one hour thirty minutes. Overall the session is very informative. In the webinar IETE ISF Website is also launched with the Head of Department, ECE, CBIT.

Sri.T.Sridher Asst Professor and Sri.P.Ranjith, Asst Professor, are coordinators of this webinar.

IETE Student Forum Website Link: <https://sites.google.com/cbit.ac.in/cbit-isf/home>

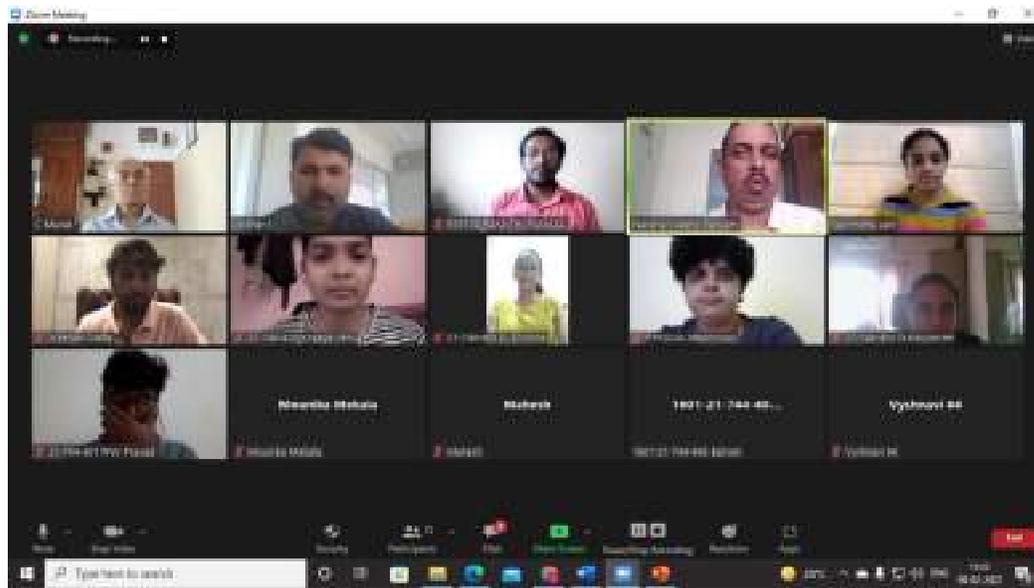


Fig.1. Interaction of Guest Speak Prof.C.Murali on webinar



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COMMITTED TO  
RESEARCH  
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**43**  
YEARS

**Department of Electronics and Communication Engineering**  
In association with



**IETE Student Forum ( ISF )**

Code: CBIT/ECE/TP/94/Feb 2022

WEBINAR NOTICE

Topic : **5G Wireless Network-A Detailed Survey**  
 Guest Speaker : **Prof.C.Murali**  
Former Vice President, IETE, Delhi; Former Chairman  
 Venue : <https://us02web.zoom.us/j/83918127927?pwd=Z3E3WEUzdGx4VWxrcVN6aHBhcjFkUT09>  
 Meeting ID: 839 1812 7927  
 Passcode: 1234

Date : 09 Feb 2022  
 Time : 01:30 – 03:30PM

Abstract

The webinar focuses on detailed description about 5th generation wireless network. It tells you more about Infrastructures for 5G services, spectrum sharing for 5G unlicensed network, energy efficiencies, security and threat challenges, and helps you get a clear picture about the technology. The webinar helps the students to have a mindset where they can choose 5G as a career and explore for new opportunities.

**About the Speaker**

Prof. Murali is an academician and educationist. Prof. Murali is a distinguished fellow of IETE, life member of ISTE and IMAPS (India). He has served IETE Bangalore centre as EC Member, Joint Secretary, Vice-Chairman and Chairman. He has served IETE, New Delhi as Governing Council member (Three terms), Academic Committee Chairman and Vice President. He has more than four decades of academic experience as a lecturer, Asst. Professor, Professor and HoD. He has served various Institutions / Universities as a BoS member, BoE chairman, advisory committee member for UG and PG. He has served M S Ramaiah Institute of Technology, Bangalore for 34 years and Ramaiah University of Applied Sciences, Bangalore as Associate Academic Registrar in Faculty of Engineering & Technology.



**Faculty Coordinator:** Sri.T.Sridhar, Asst Professor, Sri.P.Ranjith, Asst Professor  
**Student Coordinator:** Yashmitha Jain, Sreehari Datta, Sushmitha, M.Mounika

All are Welcome

Fig.2 Webinar Brochure

5G Wireless Networks – A Detailed Survey  
Participants List

1. A Sai Sandeep
2. Abhinav Reddy Kothapalli
3. Ali Ubaid Mohd
4. Allampalli Raghuseena
5. Ankush Reddy Merugu
6. Bandari Naveen
7. Chethan Avinash Reddy Jonnala
8. Firasat Hussain Mohammed
9. Gopiraju Gunji
10. Hrishi Vardhan Reddy Sudini
11. Kalyan Burri
12. Koushik Rao Gourineni
13. Loknath Reddy Budda
14. Manni Raam Reddy Pannala
15. Mohammed Faizan Ali
16. Pavankumar Tonda
17. Purra Sai Dhikshit
18. Qazi Khaja Wasif Fasiuddin
19. Rahul Dupati
20. Ritvik Bhushan Rudrapati
21. Saharsh Reddy Kallu
22. Sai Phani Dhanush S
23. Saiteja Adarla
24. Shiva Sai K
25. Siddharth Chaula
26. Siva Teja Molakalapalli
27. Sohail Mohammad
28. Srivamshi K
29. Varsha Reddy Ravula
30. Varun Mokra
31. Venkat Ganesh
32. Venkata Harshavardhan Gattu
33. Venu Kethavath
34. Vineeth Kulayi
35. E. ANUPAMA
36. G.REESHMA
37. G.SAI SREEJA
38. K.Ashwitha
39. Manasvini Nittala
40. Sanjana
41. C.KOTESH
42. J.UPENDRA
43. K.VINAY
44. Harshith Sai Gundu
45. Nikhil Juluri
46. Nikhil Moses Yerravelli
47. C.Hemanth Kumar
48. K. Gowtham
49. R. Sai Teja
50. P. Jagruthi
51. Madiha Sadaf
52. Shravya Kodur
53. Vyshnavi Ankam
54. N. Mahesh Reddy
55. SURYA TEJA M
56. VARUN D V S G
57. SOWBHAGYA SRI LALITHA MAGANTY
58. SRI SRIJA C
59. PRANAY RAO ERRABELLI
60. SAI RAM KONGARA
61. SAI TEJA PAKALA
62. AKSHITHA JAKKAM
63. LIKHITHA DASI
64. SANNITHA REDDY KONDAM
65. SLIFIYAN AHMED
66. ERUKULLA VENKAT SAI ROHAN
67. MUTHARATAPU RAMADEVI
68. SHALINI KAMBLE
69. SHARAN KUMAR BANDA
70. SREE HARI DATTA GOTTIMUKKALA
71. SRIRAM PANDI
72. SHAMITHA REDDY REGENTI
73. VINUTHNA TIRUMALASETTY
74. YASMITHA JAIN
75. MUTHYAM DEVI

**Reg: Invited Expert Lecture on 21st June 2022 FN**

1 message

**Smt.P.Madhuri Assistant Professor** <pmadhuri\_chem@cbit.ac.in> Mon, Jun 20, 2022 at 11:21 AM  
 To: bechem20-21@cbit.org.in, "Dr.P.V.Naga Prapurna Associate Prof." <nagaprapurna\_chem@cbit.ac.in>, "Dr. Mekala Mallalah Associate Professor (Contract )" <mallalah\_chem@cbit.ac.in>, balakrishna | <ibk@cbit.ac.in>, "Smt.P.Madhuri Assistant Professor" <pmadhuri\_chem@cbit.ac.in>, "Sri K.Prasad Babu Assistant Professor" <kprasadbabu\_chem@cbit.ac.in>, "Dr.B.Ganesh Assistant Professor" <bganesh\_chem@cbit.ac.in>, Harsha Nagar <harshanagar\_chem@cbit.ac.in>, Swapna V <vswapna\_chem@cbit.ac.in>, "prasannarani\_chem Asst. Professor" <prasannarani\_chem@cbit.ac.in>, "Dr. B V S Praveen" <bvspraveen\_chem@cbit.ac.in>, rajkumar\_chem@cbit.ac.in, himanshuvemula@biosephia.com, Sindhuja talla <sindhujatalla30@gmail.com>  
 Cc: Chemical HEAD <hod\_chem@cbit.ac.in>

Dear All,

Greetings!!

With an objective to update students on the latest developments in the field of Chemical Engineering Applications and Research and also create awareness on significance of Industrial Internship during B.Tech course, it is proposed to organize Invited Expert Lecture by successful alumni who are Entrepreneurs, under MoU, for this academic semester.

Please find below the details of speaker, topic and schedule for the invited expert lecture:

Class	Expert name & address	Topic	Date & time
B.Tech Chemical Engg.  IV Sem	<b>Ms. Sindhuja Talla</b> (Alumnus 2018 batch)  Managing Director, Biosephia Engineering Services, Hyderabad.	"Circular Economy & Sustainability" And "Internship Opportunities at Biosephia"	21-06-2022  [Tuesday]  11:30-12:30 PM

Thanking you  
 In-Charge HOD, Chemical Engg.  
 Dr. P. V. Naga Prapurna

Faculty Coordinators  
 Sri. I. Balakrishna (MoU Coordinator)  
 Dr. P. Madhuri (Alumni Coordinator)  
 Dr. R. Prasanna Rani (Class Teacher)  
 Dr. Raj Kumar Verma (Internship Coordinator)

21/6/2022 - 10.30 - 12.30 pm

Title : "Guest Lecture by Biosepia Group.  
Circular Economy & Sustainability and Internship Opportunities at Biosepia"

B.Tech IV SEM CHEMICAL ENGINEERING

S.No	Roll No.	Name of the Candidate	Signature
1	1601-20-802-001	ALEKHYA PITHANI	P Alekhy
2	1601-20-802-002	ALLIKA PUTTALA	P. Allika
3	1601-20-802-003	ANJALI DASARI	Anjali
4	1601-20-802-004	CHITRA BHANU P	P. Chitra
5	1601-20-802-005	HARSHA PRADHA KADUMURU	K. Harsha
6	1601-20-802-006	INDIRAMANI GUGULOTHU	G. Indiramani
7	1601-20-802-007	LAALASA KUNAPAREDDY	L. Laalasa
8	1601-20-802-008	MAHATHI REDDY PATLOLLA	M. Mahathi
9	1601-20-802-009	MOUNISHA BEGUM SHAIK	M. Mounisha
10	1601-20-802-010	NISHITHA REDDY NOMULA	N. Nishitha
11	1601-20-802-011	NISSY KIRANMAI ILAPARTHY	N. Nissy
12	1601-20-802-012	RITHVIKA ANGIREKULA	R. Rithvika
13	1601-20-802-013	SAI SRIYA KALA	S. Sriya
14	1601-20-802-014	SATHWIKA KADUDULA	K. Sathvika
15	1601-20-802-015	SHRUTHI YERRAJU	Y. Shruthi
16	1601-20-802-016	SNEEGDHA ENDLA	S. Sneegdha
17	1601-20-802-017	SRI VARDHINI BALE	S. Vardhini
18	1601-20-802-018	SRINIKHA G	G. Srinika
19	1601-20-802-019	AHMED NOORUL AMAN SUHRAWARDY	A. Ahmed
20	1601-20-802-020	AMAN DUBEY	Aman Dubey
21	1601-20-802-021	AMAY RAMDAS VANNELDAS	A. Amay
22	1601-20-802-022	ANIL AJMEERA	A. Anil
23	1601-20-802-023	ANVITH REDDY SINGIREDDY	A. Anvith
24	1601-20-802-024	ARSHID OMESH	A. Arshid
25	1601-20-802-025	AVINASH REDDY NOMULA	A. Avinash
26	1601-20-802-026	CHANDRA KANTH REDDY KANTRA PALLY	C. Chandra
27	1601-20-802-027	DHANUSH CHENGAL	D. Dhannush
28	1601-20-802-028	FAREED AHMED MOHAMMAD	F. Fareed
29	1601-20-802-029	HARISH POTULA	H. Harish
30	1601-20-802-030	JAGADEESH JADAV	J. Jagadeesh
31	1601-20-802-031	JHUBAIR ALI SHAIK	J. Jhubair
32	1601-20-802-032	KALYAN SAI SURYADEVARA	K. Kalyan
33	1601-20-802-033	MANOJ CHIPPA	M. Manoj
34	1601-20-802-034	NIKHIL REDDY SAYNOLLAGARI	N. Nikhil
35	1601-20-802-035	NITHIN BOILLA	N. Nithin
36	1601-20-802-036	NITIN VARMA YEATUCURI	N. Nitin
37	1601-20-802-037	RAKESH RATHOD	R. Rakesh
38	1601-20-802-038	RUPEESH GADDE	R. Rupesh
39	1601-20-802-039	SAI RAJ MATTA	S. Sai Raj
40	1601-20-802-040	SAI VAMSI KRISHNA MUVVA	M. Sai Krishna
41	1601-20-802-041	SAIKRISHNA RAJENDRA NANDAL	S. Sairishna
42	1601-20-802-043	SUMANTH GODDENLA	S. Sumanth

Ab

Ab

Dr. PVP

Dr. PM

Dr. KPB

Dr. RPR

43	1601-20-802-044	SWAYAM RAJ YADAV C	21/10/22
44	1601-20-802-046	UDESH SALVER	21/10/22
45	1601-20-802-047	VARAPRASAD DUDAPAKA	
46	1601-20-802-049	VISHNU REVANTH REDDY MANDHATI	
47	1601-20-802-050	VISHNU TEJA BELLAMKONDA	
48	1601-20-802-051	YOGESHWAR REDDY CHINTAREDDY	21/10/22
49	1601-20-802-052	NICKEY CHEEKURUMALLI	
50	1601-19-802-309	TALLA SANDEEP REDDY	
51	1601-20-802-301	PRANAY KUMAR T	21/10/22
52	1601-20-802-302	NAMPELly DILIP KUMAR	21/10/22
53	1601-20-802-303	GAVANIABHINAY	21/10/22
54	1601-20-802-304	CHINTHALA PRAKASH	21/10/22
55	1601-20-802-305	ALLAKONDA SHASHIPREETHAM	21/10/22
56	1601-20-802-306	JATOTH RAJITHA	21/10/22
57	1601-20-802-307	BANOTH UPENDAR	21/10/22
58	1601-20-802-308	DUNNA ARAVIND	21/10/22
59	1601-20-802-309	BORGAM NITHESH	21/10/22

Faculty co-ordinators.

HOD, Chem Engg

1) Sri. I. Bala Krishna - 21/10/22

Dr. P. V. Naga Prabu

2) Dr. P. Madhavi - 21/10/22

3) Dr. R. Prasanna Ravi - 21/10/22

4) Dr. Raj Kumar Velma - 21/10/22



**Figure: Ms. Sidhuja giving a guest lecture on Circular Economy & Sustainability**

**Reg: Invited Expert Lecture (through virtual mode) on 14th May 2022 AN**

1 message

Smt.P.Madhuri Assistant Professor <pmadhuri\_chem@cbit.ac.in> Thu, May 12, 2022 at 3:04 PM  
To: bechem18-19@cbit.ac.in, bechem19-20@cbit.ac.in  
Cc: Chemical HEAD <hod\_chem@cbit.ac.in>, "Dr.P.V.Naga Prapurna Associate Prof." <nagaprapurna\_chem@cbit.ac.in>, Sri NLN Reddy Associate Professor <nlnreddy\_chem@cbit.ac.in>, Nin Reddy <nlnreddypo@gmail.com>, belakrishna i <lbk@cbit.ac.in>, "Sri K.Prasad Babu Assistant Professor" <kprasadbabu\_chem@cbit.ac.in>, "Dr.B.Ganesh Assistant Professor" <bganesh\_chem@cbit.ac.in>, Harsha Nagar <harshanagar\_chem@cbit.ac.in>, Swapna V <vswapna\_chem@cbit.ac.in>, "prasannarani\_chem Asst. Professor" <prasannarani\_chem@cbit.ac.in>, bvsgraveen\_chem@cbit.ac.in, ramesh.babu@hyderabad.bits-pilani.ac.in

Dear All,

Greetings!!

With an objective to update students on the latest developments in the field of Chemical Engineering Applications and Research, it is proposed to organize invited expert lecture by successful alumni of Chemical Engineering, through **online platform** for this academic semester.

Please find below the details of speaker, topic and schedule for the online invited expert lecture planned for VI & VIII semester.

Class	Expert name & address	Topic	Date & time
B.Tech Chemical Engg.  Sem-VI & VIII	Prof. Ramesh Babu Adusumalli (Alumnus 2000 batch) Associate Professor, Dept. of Chemical Engineering, Birla Institute of Technology & Science (BITS) Pilani-Hyderabad Campus.	"Role of Polymers in Chemical Engineering"	14-05-2022 [Saturday] 3:30-4:30 PM

Zoom meet link details:

<https://zoom.us/j/95724770450?pwd=d1BQSWgSTEU3NTF0NE53QzNQTERvQT09>

Meeting ID: 957 2477 0450

Passcode: wD5Cx8

Thanking you

Faculty Coordinators

Dr. P. Madhuri (Alumni coordinator)

Dr. B. Ganesh (6<sup>th</sup> sem Class Teacher)Dr. Harsha Nagar (8<sup>th</sup> sem Class Teacher)

Chaitanya Bharathi Institute of Technology [A], Gandipet, Hyderabad - 075

**CHEMICAL ENGINEERING DEPARTMENT**

A Guest Lecture was delivered to B.Tech Chemical VI & VIII semester students on "Role of Polymers in Chemical Engineering, by Prof. Ramesh Babu Adusumalli (Alumnus 2000 batch), Associate Prof, Chemical Engineering Department, BITS Pilani-Hyderabad Campus on May 14th 2022.



**Figure: Snapshot of Prof. A. Ramesh presenting in the online mode for V and VII Sem students**

No. of students participated in the event are: 55

  
Signature of coordinator

  
HEAD  
Dept. of Chemical Engineering  
Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad-75.

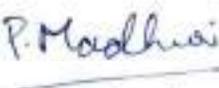
### VIII Sem Students

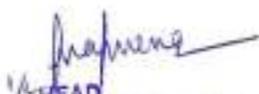
S.No.	Student Name
1	Abdul Vaheed Shaik
2	Bhanu Prakash Mothukuri
3	Charansreekar Aeleshwaram
4	D Naveen Kumar
5	Ganesh Raju Yadav Parmalla
6	Ganesh Reddy Konda
7	Indukuri Praneeth Varma
8	Kavya Sree Vanapalli
9	M Ajay Kumar
10	Manoj Kumar Moguloju
11	Mashaallah Khan
12	Noorullah Shareef Mohammad
13	Rupak Nallagundla
14	Sai Dhanush Adepu
15	Sayeed Shaik
16	Sneha Pulumamidi
17	Swetha Ganganaboina
18	Vaishnavi Bolishetti

### VI Sem Students

S.No.	Student Name
1	Abhitha Suggala
2	Akshara K
3	Amulya Pathuri
4	Kavya Sri Makalla
5	Krishna Priya Devarabhatla
6	Pravalika Mamidi
7	Preethi Bollam
8	Sadia Husaini
9	Sai Sree Sarayu Aluri
10	Shalinee Mallick
11	Sri Chitra Valivarthi
12	Srija Chavali
13	Vinoothna Muttabattula
14	Anshul Krishna Somannagari
15	Bhavesht Agarwal
16	Chirag Jain Godha
17	Dhanush Reddy Aveti

18	Hima Vamsi Chirravuri
19	Jeevan Renny Rana Thunga Raikanti
20	Mohammed Fahad Ansari
21	Mohan Krishna Turlapati
22	Mohd Sameer
23	Pavan Kumar Dilli
24	Piyush Ram Sravanam
25	Pranay Kumar Reddy Karna
26	Pratham Jain
27	Sai Mani Yogesh Kosuru
28	Sai Obul Reddy Ramireddy
29	Sai Pavan Guncheti
30	Surya Mukesh Doddi
31	Uma Mahesh Gollakoti
32	Yashraj Delhiwala
33	K R Prerna
34	G S S Sri Krishna Chaitanya
35	Dudala Tejashwini
36	K Sandeep Kumar
37	Gundreddypally Saiteja Goud

  
 Signature of coordinator

  
 HEAD  
 Dept. of Chemical Engineering  
 Chaitanya Bharathi Institute of Technology  
 Gandipet, Hyderabad-75.



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COMMITTED TO  
RESEARCH,  
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**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
--	--

	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
--	---

**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

<b>ENTRY TYPE   ENTRY FEE   PRIZE MONEY</b>			<b>TIMINGS:</b>
Single Entry	50/-	200/-	March 23: 1:00 pm - 4:30 pm
Two People	150/-	400/-	March 24: 10:30 am - 1:00 pm
			<b>EVENT COORDINATORS:</b>
			Tej: 800014488
			Pranav: 880100006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-300

**TIME:-**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9118900048  
Aravinda  
9110940002

**ENTRY FEE**    **PRIZE MONEY**  
400/-            3000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### Venue:

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### Internal Jury:

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh-500075. www.cbti.ac.in

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**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditor's Game)

**CONTACT US**  
 Ravi Gopal: 902318799  
 Ashish Kishore: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalpoti Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

### Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	Deep190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
11	S. Deepak Prasad	8301199114	deep190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
12	Hari Venkatesh	9919569666	hari190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
13	Mohan Babu K	9904639222	mbabu190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	selvaraju190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
15	K. Sai Kiran	8555961936	ksai190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
16	Abhishek	8688959195	abhishek190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	mjothi190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
18	B. Rajat	8125213473	brajat190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
19	K. Bharath Kumar	1660905836	kbharath190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
20	D. Kamath Rao	9100894837	dkamath190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
21	A. Shwathi	6303956144	ashwathi190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
22	R. Tejas	96521185391	rtejas190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
23	Nayini. Sri. H.	1381954402	snayini190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
24	G. Jyoti	996622005	gjyoti190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
25	B. Bhavani Lakshmi	8347418388	bbhavani190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
26	D. P. Pratyap	9700004422	dpratyap190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
27	K. Laksh	9206918932	klaksh190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
28	K. Jyoti	9623004222	kjyoti190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
29	P. Pravalika	19912244110	ppravalika190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
30	B. Shashi Kumar	9919452828	bshashi190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
31	D. Sai Hemansu	9306364341	dsaihemansu190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	sruthishanker190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]
33	V. Sridhar Reddy	8192125205	vsridhar190116_mech@chaitanya.edu	CBIT	2076521182146	400	[Signature]

(Net total in form)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved by: MIED  
Dr. P.V.R. Naidu

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Type Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajneera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788380991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UNV2202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairishma	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095788380991

AN/01DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Sruithi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Balida Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumaad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	90750962-8845

*P. Ravindra*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijpal Reddy

PROFESSOR & HEAD  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## Student Coordinators

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

**SUDHEE-2K22 MECHANICAL QUIZ**

ANSWER ANY 7 OUT OF 10 QUESTIONS TO WIN THE PRIZE MONEY

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm

**EVENT COORDINATORS:**  
 Tno: 800014488  
 Tjy: 800105006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. VIjayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.



## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-300

**TIME**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9118900048  
Aravinda  
9110940002

**ENTRY FEE**    **PRIZE MONEY**  
400/-            3000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### Venue:

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### Internal Jury:

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh - 520075. www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditor's Game)

**CONTACT US**  
 Ravi Goyal: 902318799  
 Ashish Kishor: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jaijit Reddy: 9966330473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

### Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Lakshmi	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	M. Subbarao	8688959975	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125243473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100894837	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanthi	6303956144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	96521185391	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	N. Nigami. Sri. H.	13819544102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Lakshmi Narayana	9966220025	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Bhavani Lakshmi	8347418388	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratyap	9700004422	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9206918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jagan Suresh	9632004822	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	19912244110	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452828	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. A. Hemansu	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8102135205	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

(Net total in 9 forms)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 DEPARTMENT OF MECHANICAL ENGINEERING  
 PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Approved: \_\_\_\_\_  
 Dr. \_\_\_\_\_  
 Head, MEED

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Type Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajneera Charan Tej	Chaitanya Bharathi institute of technology	400	80945788389991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairishma	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	809410995699

AN01DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352-777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Snathi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Baldu Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Chaitanya Bharathi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Education  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	20750962-884

*P. Ravindra*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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INSTITUTE OF TECHNOLOGY (A)**  
Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



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**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

**SUDHEE- 2K22 MECHANICAL QUIZ**

ANSWER ANY 7 OUT OF 10 QUESTIONS TO WIN THE PRIZE MONEY

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm

**EVENT COORDINATORS:**  
 Tno: 800014488  
 Tjy: 800105006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-300

**TIME:-**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9118900048  
Aravinda  
9110940002

**ENTRY FEE**    **PRIZE MONEY**  
400/-            2000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### **Venue:**

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### **Internal Jury:**

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh-500075. www.cbti.ac.in

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**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditor's Game)

**CONTACT US**  
 Ravi Gaur: 902318799  
 Ashish Kishor: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalaji Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

### Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92078837102	Deep190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	deep190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Lakshmi	9919569666	hari190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu	9904639222	mohan190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	selvaraju190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	kiran190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	Abhishek	868895917	abhishek190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	mjothi190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	rajat190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	kumar190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100894837	kamath190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanthi	6303256144	shaanthi190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	9652118531	tejas190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	Nagani. Sri. H.	1381954102	nagani190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Jyoti	996622005	jyoti190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Anand	8347418388	anand190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratyap	9700004422	pratyap190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9206918932	laksh190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jyoti	9623004222	jyoti190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	1991224111	pravalika190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452828	shashi190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. Sai Kiran	9306364341	sai190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	ruthi190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8125213473	sridhar190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

(Net total in 9 forms)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved: MED  
Dr. P. V. R. P. V. R.

*P. V. R. P. V. R.*

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Typep Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajineera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788380991 120316090254260171822 8931
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	120316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	120316090254260171822
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairishma	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	120316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095710955899 980114616091

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-771981
15		N. Sarvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hack saw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352-777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Snathi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Balida Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	20750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MEED

Signature of Coordinators

*14*  
*10/11/20*

1. Sri P.Kiran Kumar
2. Sri V.Jaijal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charan Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



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**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

**SUDHEE- 2K22 MECHANICA presents MECHANICAL QUIZ**

ANSWER ANY 7 OUT OF 10 QUESTIONS TO WIN THE PRIZE MONEY

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH423:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm

**EVENT COORDINATORS:**  
 Tno: 800014488  
 Whatsapp: 880105006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

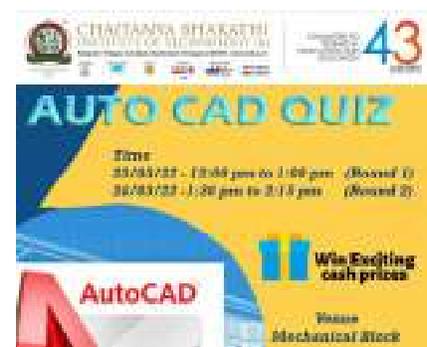
**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam



**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### Venue:

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### Internal Jury:

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh - 520025. www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditoria Gana)

**CONTACT US**  
 Ravi Gopal: 902318799  
 Ashish Kishore: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalaji Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Venkatesh	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	Mulkeesha	8688959135	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100854837	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanth	6303256144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	96521185391	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	Nayini. Sri. H.	1381954102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Jyoti	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. S. Varun	8347418388	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratik	9909090909	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9906918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jyoti	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	1991224111	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. A. Hemansu	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

Net total in 9 forms

CHAITYANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved: MED  
Dr. P.V.R. Prasad

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Typep Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajineera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788389991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Machan Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairishma	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095788389991

AN01DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Snathi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Balida Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	80750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijpal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charan Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

#### INDEX OF EVENTS :

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5	3D PRINTING WORKSHOP	10
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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
--	--

	<p>Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.</p>
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm  
**EVENT COORDINATORS:**  
 Taty: 800014488  
 Nityanshu: 880105006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY  
WALAHALA, VIZAG

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-301

**TIME**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9011000048  
Aravinda  
9110094060

**ENTRY FEE**    **PRIZE MONEY**  
400/-            2000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### **Venue:**

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### **Internal Jury:**

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh - 520015, www.cbti.ac.in

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**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
 PAPER PRESENTATION  
 POSTER PRESENTATION  
 AUTOCAD QUIZ  
 DESIGN MANIA  
 SCAVENGER HUNT  
 3D PRINTING WORKSHOP

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditor's Game)

**CONTACT US**  
 Ravi Gopal: 902318799  
 Ashish Kishore: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalaji Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

### Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Venkatesh	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	M. Subbarao	8688959975	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125243473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100894837	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanth	6303256144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	96521185391	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	N. Nigami. Sri. H.	13819544102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Jyoti. Anurag	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Bhavani Lakshmi	8347418388	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratik	9909094422	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9906918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jagan. Suresh	9623004823	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	19912241110	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452828	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. A. Hemansu	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8196125205	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

(Net total in 9 forms)

CHAITYANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved: Head, MEED  
Dr. P. V. R. P. V. R.

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Type Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajineera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788380991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairikrishna	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	8095041685699
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518091
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095788380991

AN101DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352-777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Sruithi Shanker Pydinary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Baldu Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	20750962-8845

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijpal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



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## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**  
Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

**SUDHEE-2K22 MECHANICAL QUIZ**

ANSWER ANY 7 OUT OF 10 QUESTIONS TO WIN THE PRIZE MONEY

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm

**EVENT COORDINATORS:**  
 Taty: 800014488  
 Tishyana: 880100006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 80/-

**No. of Participants:** 62

**Event Leads:**

- Mr. Mohammed Bilal
- Miss. Pravallika

**Winners:**

- First- Mr. B. Krishna Mourya
- Second- Miss. M. Sreenija
- Third-

**Cash Prizes:**

- First- Rs. 800/-
- Second- Rs. 600/-
- Third- Rs. 500/-

**Photos:**





## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam



**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### **Venue:**

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### **Internal Jury:**

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh - 520025, www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditoria Gana)

**CONTACT US**  
 Ravi Gopal: 902318799  
 Ashish Kishore: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalaji Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92074837102	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Venkatesh	9919569666	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9916519109	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	M. Subeen	868895917	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100854837	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanth	6303256144	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	9652118531	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	Nayini. Sri. H.	1381954102	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Jyoti	996622005	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Bhavani	8347418388	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratyap	9909040404	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9906918932	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jagan	9963204823	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	1991224111	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452808	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. Sai	9306364341	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182808	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8102125205	DSF190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

Net total in 9 forms

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved: Head, MEED  
Dr. P. V. R. P. V. R.

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Typep Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajneera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788389991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairikrishna	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095788389991

AN/01DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Sarvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hack saw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352-777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Snathi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			
22	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Kuthati Bharath Kumar	Mahatma Gandhi Institute of Technology	1600	207616962208
23		Mamsidi Jyothi Lohith Kumar			
24		Baldu Rajat			
25	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	A. Sharath	Mahatma Gandhi Institute of Technology	800	207661687775
26		R Tarun			
27		K. Lokesh			
28	Design And Fabrication Of Multi Axis Welding With Auto Indexing	B Pavan Kalyan	Mahatma Gandhi Institute of Technology	400	IRI 0073764
29		D Pratap			
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Chaitanya Bharathi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	80750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



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years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

#### INDEX OF EVENTS :

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5	3D PRINTING WORKSHOP	10
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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## **Student Coordinators**

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

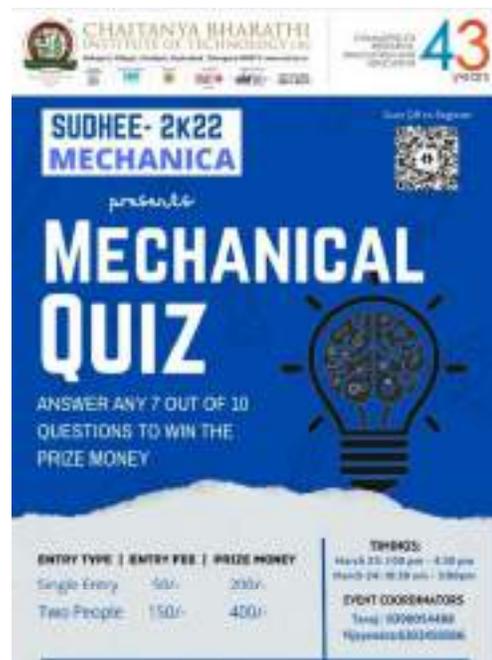
**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-



**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY  
WARRANGAL

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-301

**TIME**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9118900048  
Aravinda  
9110940002

**ENTRY FEE**    **PRIZE MONEY**  
400/-            2000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### Venue:

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### Internal Jury:

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh - 520075. www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditor's Game)

**CONTACT US**  
 Ravi Goyal: 902318799  
 Ashish Kishor: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalaji Reddy: 9966330473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

### Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Venkatesh	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	M. Subbarao	8688959975	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100954837	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanth	6303956144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	96521185391	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	N. Nigami. Sri. H.	13819544102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Jeeva Lakshmi	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Bhavani Lakshmi	8347418388	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratyap	9700004422	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9206918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jeeva Lakshmi	9662004822	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	19912241110	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452828	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. A. Hemansu	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8102125205	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

(Net total in 9 forms)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
 DEPARTMENT OF MECHANICAL ENGINEERING  
 PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Approved: \_\_\_\_\_  
 Dr. \_\_\_\_\_  
 Head, MEED

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Typep Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajineera Charan Tej	Chaitanya Bharathi institute of technology	400	80945788380991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairikrishna	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shutnam D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam, Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	809410995699

AN101DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Sarvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352-777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Sruithi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Balida Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sankapet, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	90750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijpal Reddy

PROFESSOR & HEAD  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

#### INDEX OF EVENTS :

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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## Student Coordinators

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
--	--

	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

**SUDHEE-2K22 MECHANICAL QUIZ**

ANSWER ANY 7 OUT OF 10 QUESTIONS TO WIN THE PRIZE MONEY

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm

**EVENT COORDINATORS:**  
 Tno: 800014488  
 Tjy: 800105006

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY  
WALAHALA, VADAPATI, NELLORE, AP-524 102

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-301

**TIME:-**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9118990048  
Aravinda  
9110940662

**ENTRY FEE**    **PRIZE MONEY**  
400/-            2000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### **Venue:**

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### **Internal Jury:**

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh-520075. www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
 PAPER PRESENTATION  
 POSTER PRESENTATION  
 AUTOCAD QUIZ  
 DESIGN MANIA  
 SCAVENGER HUNT  
 3D PRINTING WORKSHOP

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditoria Gana)

**CONTACT US**  
 Ravi Gopal: 902318799  
 Ashish Kishore: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jalpoti Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Lakshmi	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491657909	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	M. Subbarao	8688959135	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100854831	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shaanth	6303256144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	9652118531	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	N. N. S. S. S.	1381954102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Lakshmi Narayana	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. S. S. S.	814141838	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. P. P.	9900040404	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9206918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jagan Suresh	9623004221	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	1991224111	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	991945280	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. S. S.	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	SRUTHI SHANKER P. P. P.	99182808	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. S. S. S.	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

Net total in form

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Approved: \_\_\_\_\_  
Dr. \_\_\_\_\_  
Head, MEED

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Type Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajneera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788380991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagupathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Macham Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairikrishna	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shutnam D Dhane	Chaitanya Bharathi Institute of Technology	400	809610760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518011
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095710955899

AN/01DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Snathi Shanker Pydimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Baldu Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	80750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.



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INSTITUTE OF TECHNOLOGY (A)**  
Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO  
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INNOVATION AND  
EDUCATION

**43**  
years

## SUDHEE 2022

### Department of Mechanical Engineering

## MECHANICA 2022

#### INDEX OF EVENTS :

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5	3D PRINTING WORKSHOP	10
6	SCAVENGER HUNT	11
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## **About Mechanica**

MECHANICA is the 2-day National Level Technical Fest of Department of Mechanical Engineering organised as a part of SUDHEE'22, the Technical Fest of CBIT. Mechanica has organised 09 euphoric events during the academic year 2021-2022. The fest was conducted on 23<sup>rd</sup> and 24<sup>th</sup> of MARCH, 2022 pragmatically. We had 400+ participants altogether.



## **Support from College**

The college management, Principal, Head of the Department and SUDHEE Core Committee have encouraged, supported and guided us through out this venture.

## **Faculty Coordinators**

1. Sri. P. Kiran Kumar (Assistant Professor, MED)



2. Sri. V. Jaipal Reddy (Assistant Professor, MED)



## Student Coordinators

1. Mr. R. Ashish Choudhary



2. Mr. M. Sri Harsha



3. Mr. K. Nishanth



## **Overall Event Heads**

1. Mr. Rohit Godse



2. Mr. Shaik Chand Pasha



## **Details:**

### **I. INAUGURAL CEREMONY**

The Opening Ceremony of Mechanica, was conducted offline at 12:00 PM on 23rd March, 2022. The ceremony was presided over by Dr. P. V. R Ravindra Reddy, Head of the Department(MED). The speaker, Dr.

J. John Rozario Jegaraj, then addressed the crowd. The technical fest was officially declared open.

**Speaker:** Dr. J. John Rozario Jegaraj

**Topic:** Disruptive Technologies in Defence & Aerospace Applications.

**Event Dates:** 23rd and 24th March 2022

**Event Website:** <https://linktr.ee/mechanica2022>

### Guest Speaker:



**Dr J. JOHN ROZARIO JEGARAJ**

Scientist F in DRDL, Hyderabad.

**Dr. J. JOHN ROZARIO JEGARAJ** is serving as **Scientist F in Defence Research and Development Laboratory (DRDL), DRDO, Hyderabad.** Presently, he is **Deputy Technology Director and Head, Product Engineering and Industry Interface Division, Directorate of Productionization & Technology Transfer, DRDL, Hyderabad.**

He has completed his Bachelor's degree in Mechanical Engineering with distinction from Pondicherry Engineering College, Pondicherry Technological University, Pondicherry, and Masters degree in Mechatronics in distinction with Gold medal from MIT, Anna University, Chennai. He got his Doctorate degree in Mechanical Engineering from Indian Institute of Technology Madras, Chennai in 2006.

He is having about 27 years of industrial and research experience. He is involved in the development of Critical Aerospace & Missile Hardware and having wide experience in the areas of product development and manufacturing of missile hardware such as Rocket Motor Assemblies, Airframe Sections, Fin Assemblies,

	<p>Control Surfaces, Propulsion system components, Launchers and other Ground systems.</p> <p>In 2018, he has been awarded prestigious “<b>Engineer Of The Year Award</b>” by the Government of Telangana and the Institution of Engineers (India), Telangana State Centre, Hyderabad. He has been also awarded “<b>DRDO Science Day Award</b>” in 2019, “<b>Technology Group Award</b>” in the year 2019 and 2020 for the development of processes for special hardware for missile applications. In 2021, he has been awarded “<b>DRDL Laboratory award</b>” for his contributions towards 3D printing of components for missile applications and many other awards towards his contributions.</p> <p>He is Fellow in various professional societies like Indian Institute of Production Engineers, Institution of Engineers (India), and member of Aeronautical Society of India, Astronautical Society of India, Society for Failure Analysis, Indian Society for Non Destructive Testing and many other forums.</p> <p>He has guided Doctoral research, P.G and U.G project works and published many research papers in the International Journals and conferences in the area of manufacturing. He is a member of Board of Studies of many colleges and member of Advisory Boards of many Organizations.</p> <p>His areas of interest are Product Development, Additive Manufacturing, Advanced Manufacturing, Innovative and Disruptive</p>
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	Manufacturing Technologies, Abrasive Waterjet Machining, Precision Machining, Mechatronics, Modeling and Simulation of Manufacturing processes.
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**Photos:**



**2. MECHANICAL QUIZ**

**Description:** A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, to win a prize. We designed these to promote, a fun way of study and help in the process of improving one’s general knowledge.

**Date & Time:**

- March 23: 1:00 pm to 4:30 pm.
- March 24: 10:30 am to 1:00 pm.

**Venue:** D-201, MED, CBIT.

**Registration Fee:**

- Single- Rs. 50/-
- Pair- Rs. 150/-

ENTRY TYPE	ENTRY FEE	PRIZE MONEY
Single Entry	50/-	200/-
Two People	150/-	400/-

**TIH422:**  
 March 23: 1:00 pm - 4:30 pm  
 March 24: 10:30 am - 1:00 pm  
**EVENT COORDINATORS:**  
 Tnoy: 8008014488  
 Whatsapp: 8801050086

**No. of Participants:** 30

**Event Leads:**

- Mr. V. S. L. Tanuj
- Mr. Vijayendra

**Winners:** Mr. N. Sashank & Mr. Rohit Godse

**Cash Prize:** Rs. 400/-

**Photos:**



### 3. AutoCAD QUIZ:

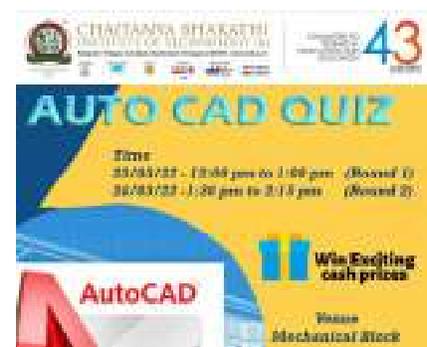
**Description:** AutoCAD is a design and drafting software used by architects, engineers, interior designers to create 2D and 3D drawings and models which helps them in their design and analysis. The present quiz is a fun way to improve and test your knowledge about the software and drafting in general.

**Date & Time:** 23 March- 2:00 to 3:00 PM

**Venue:** E-201, MED, CBIT

**Registration Fee:**

- Quiz for 1st year students: ₹30 per head
- Quiz for all other year students - ₹50 per head



**No. of Participants:** 28

**Event Leads:**

- Mr. Sudhansh
- Mr. Chinmay Krishna Peri

**Winners:**

- Miss. S. Sravya
- Mr. B. Kaushik

**Cash Prizes:**

- First- Rs. 500/-
- Second- Rs. 300/-

**Photos:**



**4. 3D DESIGN MANIA:**

**Description:** 3D Design Mania is 3D Modelling competition Of Daily used or any other Real-Time Examples. You use either Solid Works or Fusion 360 Software for Designing.

**Date & Time:** March 24th 10:30 to 1:00

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 80/- per head



**No. of Participants:** 9

**Event Leads:**

- Mr. Tarun Vishnu Vardhan
- Mr. Nirmal Naha

**Winners:**

- Mr. V. M. Bharadwaj

**Cash Prize:** Rs. 670/-

**Photos:**



## 5. 3D PRINTING WORKSHOP:

**Description:** 3D printing is the process of creating physical object from a digital 3D design. It is a growing field and most likely to become the future of manufacturing. The 3D printing workshop, we are conducting will help the students to explore the opportunities and its applications in today's developing world.

This workshop includes:

- Introduction about various 3D printing technologies and its applications.
- Slicing the 3D model using a software.
- 3D Printing the model.

After completion of the workshop, a Quiz will be conducted. The top three participants who score the highest marks in least possible time will be awarded with a merit certificate and a 3D printed model.

**Date & Time:** March 23- 1:00 to 4:00 PM

**Venue:** CAD/CAM Lab, MED, CBIT

**Registration Fee:** Rs. 100/- per head

**No. of Participants:** 35

**Faculty Coordinator:** Smt. P. Anjani Devi, Assistant Professor, MED, CBIT



**Event Leads:**

- Mr. Vege Sai Anjan
- Miss. S. Shravya

**Photos:**





## 6. SCAVENGER HUNT

**Description:** Scavenger hunt is fun and informal event for team of two (or) individual.

It includes basic IQ riddles for all and everyone. Riddles are made by keeping in mind all the students from 1st - 4th year. It basically consists of 8-10 riddles printed on play-cards which would be hidden at different places. The participants have to solve the riddle on each card, which would guide them to the next place, where they would find the next riddle, till the last place. The participants have to collect all the cards, and each card will act as a piece for the final riddle which will include technical riddle and at last, they have to assemble them in such a way that the puzzle/riddle is solved. The team to finish it in best time will be considered as winner and the second place and third vice-versa.

**Date & Time:** March 24- 2:00 to 4:00 PM

**Venue:** Assembly Point- MED Entrance & Hunt- Entire Campus

**Registration Fee:**



## 7. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

**Venue:** D-201, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 0

### Event Leads:

- Miss. Anushka
- Mr. Aravindam

**CHAITANYA BHARATHI**  
INSTITUTE OF TECHNOLOGY  
WALAHALA, VADAPATI, HYDRABAD

**43**  
YEARS

**SUDHEE 2022**

**POSTER PRESENTATION**

- Open To All

**VENUE**  
E-303

**TIME**  
23-03-22  
1:00 pm to 4:30 pm  
24-03-22  
10:00 am to 3:30 pm

**EVENT LEADS**  
Anushka  
9011000048  
Aravinda  
9110094060

**ENTRY FEE**    **PRIZE MONEY**  
400/-            3000/-

SCAN QR CODE

**Winners:** 0

**Cash Prizes:** Rs. 2000/-

## 8. 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 23- 1:00 to 4:30 PM
- March 24- 10:00 to 4:30 PM

### **Venue:**

- Seminar Hall, MED, CBIT
- E-303, MED, CBIT

**Registration Fee:** Rs. 400/-

**No. of Participants:** 38

**No. of Papers Received:** 30

### **Internal Jury:**

- Dr. N. V. Srinivasulu, Professor, MED, CBIT.



- Dr. Md. Aleem Pasha, Associate, MED, CBIT.
- Dr. Ch. Indira Priyadarshini, Assistant Professor, MED, CBIT.
- Dr. B. V. S Rao, Assistant Professor, MED, CBIT.

**External Jury:**

- Dr. T. Rammohan Rao, Professor & Head, Vasavi College of Engineering.
- Dr. K. Sudhakar Reddy, Professor & Head, Mahatma Gandhi Institute of Technology.
- Dr. S. Naga Sarada, Professor, JNTUH.
- Dr. P. Srinivasa Rao, Professor & Head, Vardhaman College of Engineering.

**Event Leads:**

- Miss. E. Pranitha Raj
- Miss. N. Satvika

**Winners:**

- Mr. D. Hemamsu
- Miss. Sruthi Shanker Pydimarry
- Mr. A. Sharath & Mr. R. Tharun
- Mr. G. Harshavardhan Reddy

**Cash Prize:** Rs. 2000/- for one paper

**Photos:**



## 9. SHARK TANK CBIT

**Description:** Shark Tank CBIT is a platform for students to pitch their project ideas and in exchange get the fund required to kickstart their journey of turning the idea into reality.

**Date & Time:** 23<sup>rd</sup> March- 1:00 to 4:30 PM

### **Prerequisites:**

A detailed project presentation (PPT) with the following criteria:

- An innovative Idea
- Its contribution to society in solving a problem
- Feasibility (transforming idea into product)
- Project Expenditure Credit System: Each of the above-mentioned criteria has 5 credits.

### **Maximum Credits:** 20

- 19-20 credits=100% of ask
- 17-18 credits=75% of ask
- 15-16 credits=50% of ask
- 14 credits=Reg. Fee will be given back

**Event Procedure:** Each participant must pitch their project idea within 30 minutes. A panel of judges will analyse every aspect of the presentation, ask for clarifications over the above-mentioned criteria. Then there will be a discussion among the panel over the genuineness of the idea and will finally take a call on awarding the funds to the participant. Note: The fund will be awarded by the panel based on the

above-mentioned criteria may not match the participant's expected fund (it may be less).

**Targeted Participants:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year Students from all branches, who have an excellent project idea and are looking for funding.

**Event Details:** "Ask": It is the expected fund. It can range from ₹1000 to ₹5000 in multiples of 1000 Maximum "Ask": 5000/-

**Registration Fee:** 10% of "Ask"

**No. of Participants:** 3

**Jury:**

- Dr. Puneet Chandran, Assistant Professor, CBIT
- Dr. Ammireddy Kiran Kumar, Assistant Professor, CBIT
- Dr. Hari Krishan Yadav,

**Event leads:**

- Mr. N. Jaya Sai Sashank
- Mr. A. Tharun

**Winners:** Team of 3

- Mr. Mukund Vishwanath
- Mr. Prasanna Ganapati Manjunath Nayak
- Mr. Jayesh Dhooth

**Cash Prize:** Rs. 2500/-

**Photos:**



## 10. TECH WHIZZ

**Description:** Participants will be given a problem statement they have to provide the right solution. The best among them will be awarded with cash prize.

**Date & Time:** 23 March- 1:00 to 4:30 PM

**Venue:** E-203, MED, CBIT

**Registration Fee:** Rs. 50/-

**No. of Participants:** 3

**Jury:** NIL

**Event Leads:**

- Mr. Sadanand
- Mr. Vijay Sai

**Winners:** 0



## EVENTS SUMMARY:

S.No	Event Name	No. of Participants (Including Outside Participants)	No. of Outside Participants
1.	Mechanical Quiz	30	6
2.	AutoCAD Quiz	28	0
3.	3D Design Mania	9	0
4.	3D Printing Workshop	35	0
5.	Scavenger Hunt	62	0
6.	Paper Presentation	30	8
7.	Poster Presentation	0	0
8.	Shark Tank CBIT	3	0
9.	Tech Whizz	3	0
	<b>TOTAL</b>	200	14

## MECHANICA'22 POSTER:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
 Kukatpally (Village), Guntur, Andhra Pradesh-500075, www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **43** years

**PRESENTS**  
**SUDHEE 22**

# MECHANICA

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

**IGNITE INNATE INNOVATIONS**  
**MARCH 23 & 24**

**ASME CRIT EVENTS**  
 SHARK TANK CBIT  
 TECH WHIZZ

**MECHANICAL QUIZ**  
**PAPER PRESENTATION**  
**POSTER PRESENTATION**  
**AUTOCAD QUIZ**  
**DESIGN MANIA**  
**SCAVENGER HUNT**  
**3D PRINTING WORKSHOP**

**PRAHETI RACING EVENTS**  
 HANDS-ON ENGINE ASSEMBLY WORKSHOP  
 JANATRA GARAGE (Auditing Game)

**CONTACT US**  
 Ravi Goyal: 902318799  
 Ashish Kishor: 9013885414  
 Koushik Nishant: 9014470059  
 mechanica\_cbti@cbti.ac.in

**FACULTY COORDINATORS**  
 Sri B. Kishan Kumar: 8910087462  
 Sri V. Jaijit Reddy: 9966230473

**SCAN QR TO REGISTER**

### **VALEDICTORY CEREMONY:**

The Valedictory Ceremony of Mechanica, was conducted offline at 03:00 PM on 24th March, 2022. The ceremony was presided over by the Head of the Department, Dr. P.V.R Ravindra Reddy, Professor, MED. The number of registrations for each event were announced. The faculty coordinators Sri P. Kiran Kumar, Sri V. Jaipal Reddy then addressed the crowd. The winners & runners per event were announced. The program ended with vote of thanks.

### **MECHANICA 2022, VALEDICTORY CEREMONY**

**Date & Time: 24<sup>th</sup> March,2022 at 3:00PM**

**Audience: 199**

### **DEMOGRAPHICS:**

The demographics for the event are as follows:

5 other colleges have registered like Mahatma Gandhi Institute of Technology, Guru Nanak Institute of Technology, Deccan College of Engineering, Vasavi College of Engineering, University College of Engineering & Technology for Women.

### **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.

Chaitanya Bharathi Institute of Technology(A)

Sudhee-2022 (innate ignite innovation)

Registration Form: Department:

S.No	Name	Mobile No	Mail-id	Institute	Transaction ID	Amount	Signature
10	S. Deepak Reddy	92034337102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
11	S. Deepak Prasad	8301199114	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
12	Hari Lakshmi	9919569666	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
13	Mohan Babu K	9904639222	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
14	S. Selvaraju Reddy	9491659709	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
15	K. Sai Kiran	8555961936	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
16	Abhishek	8688959195	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
17	M. S. Jothi Kumar	6308851011	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
18	B. Rajat	8125213473	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
19	K. Bharath Kumar	1660905836	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
20	D. Kamath Rao	9100854837	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
21	A. Shivaiah	6303256144	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
22	R. Tejas	9652118531	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
23	Nayini. Sri. H.	1381954102	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
24	G. Lakshmi Narayana	996622005	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
25	B. Bhavani Lakshmi	8347418388	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
26	D. P. Pratyap	9909040404	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
27	K. Laksh	9906918932	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
28	K. Jotha Suresh	9963204823	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
29	P. Pravalika	1991224111	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
30	B. Shashi Kumar	9919452828	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
31	D. S. A. Hemansu	9306364341	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
32	S. RUTHI SHANKER P. DIMARI	99182888	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]
33	V. Sridhar Reddy	8196135305	DS190116_mech@chaitanya.edu	CBIT	207652182146	400	[Signature]

(Net total in 9 forms)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Approved by: MIED  
Dr. P. V. R. P. V. R.

PAPER PRESENTATION CERTIFICATES-MECHANICA-22

Title of the paper	Student Name	College Name	Amount	Transaction Id
Enhancement Of Heat Transfer In A Corrugated Heat Exchanger With Non-Newtonian Fluids	Banoth Sandhya Rani	Chaitanya Bharathi institute of technology	400	0352548589
Design And Analysis Of Aes Type Heat Exchanger Using Pv Elite With Asme Code	Jadhav, Sunil Kumar	Chaitanya Bharathi institute of technology	400	0852596392
Design And Analysis Of Pressure Vessel Using Pv Elite	Ajneera Charan Tej	Chaitanya Bharathi institute of technology	400	8095788380991
Energy Demand In Biogas - A Comparative Study Of Types Of Feedstocks	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Control Of Pollution Levels Of Semi-Adiabatic Diesel Engine With Cng And Carbureted Methanol.	Durgam Jagapathi Babu	Chaitanya Bharathi Institute of Technology	400	122031609030089 UN92202991
Thermal Analysis Of Missile Airframe Section	Mohd Anas Khan Danish	Chaitanya Bharathi Institute of technology	400	80941016964
Finite Element Analysis & Optimization Of Ceramic Injection Moulding Process Parameters And Mechanical Property Evaluation Of Ceramic Cores	Machan Sandeep	Chaitanya Bharathi institute of technology	400	809610380132
Design And Analysis Of Adaptive Wing Using Compliant Mechanism	C. Jayanth Sairishma	Chaitanya Bharathi Institute of Technology	400	809611953089
Optimization Of Dimensional Inspection Methodology Using Coordinate Measuring Machine	Shubham D Dhane	Chaitanya Bharathi Institute of Technology	400	8096109760020
Design And Fabrication Of Die Set For Forging And Aerofoil Blade.	Sadige Akhil Prasad	Chaitanya Bharathi Institute of Technology	400	809504168569
Analysis Of Powder Compaction Die	S.Soumya Reddy	Chaitanya Bharathi Institute of Technology	400	1220316090254260171822
Experimental Investigation The Incremental Forming Of Aluminium Alloy.	Kolam Saikiran	Chaitanya Bharathi Institute of Technology	400	809610518091
Design And Analysis Of Electric Scooter.	G. Harshavardhan Reddy	Chaitanya Bharathi Institute of Technology	400	8095788380991

AN101DH-A

14	Maglev Trains: Sustainable Development For Future	E. Pranitha Raj	Chaitanya Bharathi Institute of Technology	800	0352-77198
15		N. Satvika			
16	A Brief Introduction To Artificial Intelligence	S. Deepak Reddy	Chaitanya Bharathi Institute of Technology	400	207521182146
17	Four Way Hacksw Machine	V Sridhar Reddy	Guru Namak institute of technology, Ibrahimpatnam	400	0352-970931
18	Blockchain And Supply Chain: The Perfect Union Of Efficiency And Transparency	Dasari Hemamsu	Chaitanya Bharathi Institute Of Technology	400	207523623146
19	Fiber Reinforced Composites For Marine Application	P. Pravallika	Chaitanya Bharathi Institute Of Technology	400	0352777961
20	Integrating Efficient Flow Processes And Value Chains Through Time And Motion Study: An Ikea Perspective	Sruithi Shanker Pycdimary	Chaitanya Bharathi Institute of Technology	400	0352-370728
21		Dommeti Kameshwara Rao			207616962208
22		Kuthati Bharath Kumar			207619559035
23	Solar Panel Efficiency Enhancement With Sun Tracking And Cooling	Mamsidi Jyothi Lohith Kumar	Mahatma Gandhi Institute of Technology	1600	
24		Baldu Rajat			
25		A. Sharath			
26	Design And Fabrication Of Voice Command Robot Car Using Arduino Uno.	R Tarun	Mahatma Gandhi Institute of Technology	800	207661687775
27		K. Lokesh			
28		B Pavan Kalyan			
29	Design And Fabrication Of Multi Axis Welding With Auto Indexing	D Pratap	Mahatma Gandhi Institute of Technology	400	IRT0073764
30		K. Joshua Sumad			
31	Design And Fabrication Of Magneto Engine	Antbadupula Shashi Kumar	Mahatma Gandhi Institute of Technology	1200	IRT0131305
32	Rechargeable Hoverboard	Mubeen Patel	Chaitanya Bharathi Institute of Technology	400	2075
33	Reduction In Manufacturing Cost Of Body In White By Implementing Casting .	Lakshmi Narayana Reddy Gurram	Chaitanya Bharathi institute of technology	400	8666
34	Paper On Use Of Reusable Lighter Than Air Systems For Missile Launch Operations	Pranav Sagar	Chaitanya Bharathi Institute of Technology	400	2075
			Chaitanya Bharathi Institute of Technology	400	2077

Dr. P.V.R. Ravindra Reddy  
Head, MED

PROFESSOR & HEAD  
Department Of Technical Engineering  
Chaitanya Bharathi Institute Of Technology  
Sasipat, Hyderabad-505 075, (E. G.)

25	Study On Thermal Properties Of CO <sub>2</sub> /Water Nanofluids For Heat Transfer Applications	Nayini Sabithi	Mahatma Gandhi Institute of Technology	400	0353105374
26	Design And Optimization Of Single - Phase Microchannel Cooling System In Electronic Devices	Naga Sai P	Vasavi College of Engineering	400	6112-183911
27	Design And Fabrication Of Vapour Compression Refrigeration Cycle And Water Generator	G. Harshavardhan	Mahatma Gandhi Institute of Technology	400	MC0621784772
38	Composite Material Characterization Using Non Destructive Testing Methods- A Review	G. Kishan	UCETW, Kakatiya University Campus, Warangal,	400	20750962-884

*P. Ravindra Reddy*

Dr. P.V.R. Ravindra Reddy  
Head, MED

Signature of Coordinators

1. Sri P.Kiran Kumar
2. Sri V.Jaijpal Reddy

**PROFESSOR & HEAD**  
Department Of Mechanical Engineering  
Chaitanya Charanji Institute Of Technology  
Gandipet, Hyderabad-500 075, TS, I.

## Chaitanya Bharathi Institute of Technology(A)

### Department of Biotechnology

#### Industrial Visit Report

Date of visit: 07-12-2021

Duration: 1day

**Industry Name: National Institute of Animal Biotechnology, GOI, Hyderabad.**

As a part of Industrial visit, Dept. of Biotechnology has organized a one-day visit to NIAB, Hyderabad on 7<sup>th</sup> December of 2021. We are the students of B. Tech Biotechnology VII Sem and faculty members visited the NIAB, DBT, GOI, Telangana State. This programme was utilized by 25 students of 4<sup>th</sup> years (VII semester) and Five faculties including Dr C. Obula Reddy, Dr. G. Vijaya Laxmi coordinated the visit.

We reached the Institute by 11:00AM. The scientist Dr BalaDurgaprasada Rao cordially received us and presented the AV about the inception of the NIAB, their research and their immense contributions to the livestock society. After a brief introduction about their scientists Prasad sir, provided us a great chance for our students and faculty to exchange views and ideas with them.

Under the eminence guidance of Scientist in charge we got ever lost chance to observe the small animal house and live demonstration of different routes of administration of injections, collection of Blood and provided an opportunity to students for methodology of handling of Animals.

After refreshments we started to observe the instrumentation facilities in NIAB namely PCR, RT- PCR, Microscopic visualization of developmental stages of embryo, Microinjection, made the students to understand the working principles of different types of SEM, TEM, Confocal and Laser Microscopy and techniques for the purification of proteins like GC-MS, LC-MS, HPLC.

After observing the Instrumentation facilities again scientist in charge made us to interact with the veterinarians to discuss about the uses of maintaining (isolation, vaccination) large animal house facility.

With these cherished moments and loaded with abundant Transgenic animal research, the students reached the college by 3.30PM.

**Industrial visit Outcome:** Through this visit, students' knowledge is enriched about Animal Biotechnology, and made them to familiar with state of art instrumentation facilities and motivated them towards research in Animal Biotechnology.

By attending the industrial visit, the students attained the respective POs and PSOs.

Submitted by  
Industrial visit Coordinator

Dr C. Obula Reddy 18/12/21

Dr. Ganitha. 18.12.21

**Industrial visit on 7-12-2021 to NIAB, Gowlidoddi, Hyderabad.**  
**B.TECH. (BIOTECH) - VII SEMESTER**

S.No	Roll No	Name of the Candidate	Signature
1	1601-18-805-001	AISHWARYA PALVAI	(A)
2	1601-18-805-002	ALISHA CHUNDURI	(A)
3	1601-18-805-003	ANJANA SRIJA KUDUMULA	Anjana
4	1601-18-805-005	DEEPIKA N	Deepika
5	1601-18-805-006	GEETHIKALAL VADAKAVILA	Geethika
6	1601-18-805-007	HARINI GOPALA	(A)
7	1601-18-805-008	HIMAVARSHINI P	Himavarsini
8	1601-18-805-009	JAHANAVI M	Jahnavi
9	1601-18-805-010	JAHNAVI AVADHANULA	(A)
10	1601-18-805-011	JEHAN SIDDIQUI ANUM	Jehan
11	1601-18-805-012	KAVYAGOPIKA YAMINI CHENNUPALLI	(A)
12	1601-18-805-013	KIRANMAI DORNALA	Kiranmai
13	1601-18-805-014	KRISHNA PRIYA VENNAMANENI	(A)
14	1601-18-805-015	LAKSHMI SRI RAMYA PIDUGU	Lakshmi
15	1601-18-805-016	MEGHANA REDDY DROPATHI	(A)
16	1601-18-805-017	NAINIKA CHADA	Nainika
17	1601-18-805-018	NIVEDITHA D	Niveditha
18	1601-18-805-019	PALLAVI TELU	(A)
19	1601-18-805-020	PRAGNYA SAIPRIYA MUNISETTI	(A)
20	1601-18-805-021	RAMYA YENDURI	Ramyayenduri
21	1601-18-805-022	RITHIKA G	Rithika
22	1601-18-805-023	SAIMANASA KALYANAM	(A)
23	1601-18-805-024	SANTHOSHINI HAZARI	(A)
24	1601-18-805-025	SOWMYA GOLLA	Sowmya
25	1601-18-805-026	SUCHETA RAJARAMAN	(A)
26	1601-18-805-027	SWARNA LEKHYA YARLAGADDA	(A)
27	1601-18-805-028	TEJASWINI REDDY MEDAGAM	(A)
28	1601-18-805-029	USHASWINI SUNKARA	Ushaswini
29	1601-18-805-030	UZMA TABASSUM	Uzma

30	1601-18-805-031	VISHWANUTHA SHAMSHABAD	Vishwanud
31	1601-18-805-032	YAMINI ARLIBANDI	Yamini
32	1601-18-805-033	ALAM SAHZAD	Alam Sahzad
33	1601-18-805-034	DEEPAK MOHAN REDDY S	Deepak
34	1601-18-805-035	DHANISH DAAMAN RAU JALIGAMA	Dhanish
35	1601-18-805-036	LAKSHMAYYA N S V	Lakshmayya
36	1601-18-805-037	Mohith Reddy Arikatla	(A)
37	1601-18-805-038	RAGHU SAI NATH REDDY G	(A)
38	1601-18-805-039	SAI KIRAN KADARLA	(A)
39	1601-18-805-040	SAI VAMSI ERRA	Sai Vamsi
40	1601-18-805-041	SAMIR MEHDI	(A)
41	1601-18-805-042	SOURAB MASHETTY	(A)
42	1601-18-805-043	VIJAY BHARGAV MALISETTY	Vijay
43	1601-17-805-008	MADHULIKA K	(A)
44	1601-17-805-031	SRI RAMYA CHANDRIKI	(A)
45	1601-16-805-025	SANIA MASARRATH	Sania
46	1601-17-805-007	DASI HARSHINI	(A)
47	1601-17-805-013	NISHITHA SAI TADIBOYINA	(A)
48	1601-17-805-020	AMANAGANTI ROHA REDDY	(A)
49	1601-17-805-024	RAYABANDI SANJANA	Sanjana
50	1601-17-805-040	AKHIL JILLELLA	(A)
51	1601-17-805-042	CHUNDURI KAUSHIK	(A)

I/C Head  
Dept. of Biotechnology

*[Handwritten Signature]*

Dept. of Biotechnology  
Chaitanya Charities, Institute of Technology  
Guntur, N.T. Road, Guntur-523 102





**C.B.I.T**

E-MAIL & WEB SERVICES

Sri C.Odul Reddy Assistant Professor <sochulreddy\_biotech@cbiit.ac.in>

**Fwd: Request for permission to attend the industrial visit to NIAB-Reg**

Bio Tech HEAD <hod\_biotech@cbiit.ac.in>

Wed, Dec 1, 2021 at 2:00 PM

To: "Dr. C.Odul Reddy" <sochulreddy\_biotech@cbiit.ac.in>, "B. SUMITHRA" <sumithrab\_biotech@cbiit.ac.in>

----- Forwarded message -----

From: Principal CBIT <principal@cbiit.ac.in>

Date: Wed, Dec 1, 2021 at 1:59 PM

Subject: Re: Request for permission to attend the industrial visit to NIAB-Reg

To: Bio Tech HEAD <hod\_biotech@cbiit.ac.in>

Approved.

Dr. P. Ravinder Reddy,

Principal, CBIT,

Gandipet, Hyderabad - 500 075.

Telangana State,

India.

On Wed, Dec 1, 2021 at 1:57 PM Bio Tech HEAD <hod\_biotech@cbiit.ac.in> wrote:  
Dear Sir,

As advised by you regarding industrial visits for V sem and VII sem we are contacting some industries. As part of that we have spoken with National Institute of Animal Biotechnology, An Autonomous Institute of the Department of Biotechnology, Ministry of Science and Technology, Government of India who have agreed for a visit of our VII sem students to their place on 7th Dec 2021. The approval came just now.

Hence I request you to kindly give us permission for taking the VII sem students accompanied by B faculty in our college bus.

Thanks and regards

Dr. Rajesh Yadavalli Pandam B.Tech., M.Tech., Ph.D

Associate Professor and In-Charge Head

Dept. of Biotechnology

Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad

Y/hoj  
6/12/21

<https://mail.google.com/mail/u/0/?ui=2&ik=1d96644d08&ikw=rj&asaschmail&permmsgid=msg-763A1717921781008882191&siml=msg-763A1717921781008882191>

1/2



# Webinar on Gender Sensitization



SPEAKER

**Vishvani Siluguri**

Assistant Operations Manager,  
VOICE 4 Girls



**Contact:**

Srawya- 9866484951

Kavya- 9381785415



**19-10-2021**

**4:30pm-5:30pm**

## A Brief Report

### Webinar on Gender Sensitization

**Date:** 19<sup>th</sup> October 2021

**Duration:** 1 hour

**Details of the event:**

This is a webinar by the Women in Engineering Society of IEEE CBIT Student Branch, wherein Vishvani Siluguri and Srusti Rao Kallempudi discussed gender-sensitive issues. The objective of this session is to raise sensitization of gender equality concerns. Gender Sensitization is a basic requirement to understand the sensitive needs of a particular gender. Gender Sensitization promotes equality for men and women by allowing them to view what is stereotypical of and reasonable of their gender.

The Speaker of this session is Vishvani Siluguri and Srusti Rao Kallempudi. Vishvani Siluguri is an Assistant Operations Manager at VOICE 4 Girls NGO. Vishvani is a development professional who has traveled and worked extensively for adolescent girl child education in Telangana and Andhra Pradesh for a decade. She holds a Master's Degree in Rural Development and Governance from Tata Institute of Social Sciences, Hyderabad. She's deeply passionate about Gender, Education, and Rural Livelihoods. Srusti Rao Kallempudi is a Project Officer at VOICE 4 GIRLS NGO. She had a Master's Degree in Public Policy from O.P. Jindal Global University.

An event is an activity-based event, comprised of a discussion of several topics on Gender Sensitization. Firstly, the speaker explained about the Voice 4 Girls NGO, Voice 4 Girls conducts activity-based camps in government and low-cost private schools. Through these camps, adolescents acquire critical knowledge, spoken English, and life skills. The event started with a discussion on the participant's views on Gender Sensitization. The second one is the activity on masculine and feminine. The speaker explained some case studies and statistics on gender concerns. The speakers and participants shared their personal experiences on gender discrimination and gender stereotypes. Finally, they mentioned the internships offered by Voice 4 Girls NGO.

## Number of Participants:

Over 30 members participated in the event and responded to all the activities.

## Pictures of the event:



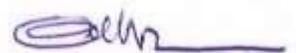
## Feedback from the participants:

The participants found the entire session very informative. They got a clear understanding of what is stereotypical and reasonable of their gender.



Course Coordinator

(G. MALLIKHARJUNA RAO)



HOD, ECE

(Dr. D. Krishna Reddy)

## ATTENDANCE SHEET

### Webinar on Gender Sensitization

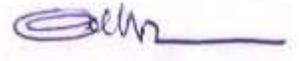
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**R&D Centre, R&E Hub**

In association with

**Department of MCA**

**Organising Online National Quiz**

**TECHWIZZ-2021**

**Saturday, 10 July 2021 : 10 AM -12 NOON**

**About the Techwizz-2021:**

The objective of the event is to identify the student's talent in the field of computer applications. Here we are providing opportunities for the students to express their talent in the field of computer programming languages and reasoning. In this programme, a Technical Quiz will be organized using well known programming languages – Python, 'C', C++, Java and reasoning. This Quiz consists of 60 questions out of which 12 from Python, 12 from 'C', 12 from C++, 12 from Java and the remaining 12 from reasoning. All of the questions are multiple choice type. Duration to attempt the Quiz test is 90 minutes. It is an online test, using Google form. The link will be provided to all the participants, who are registered for the programme. Link will be active for only 90 minutes. All the students who are scoring above 60 percent will be awarded with a participation certificate.

Note :-

1. No registration fee.
2. Limited registrations on first cum first serve basis.
3. Merit Certificates for top 10 students.

**Registration Link :** <https://forms.gle/TtAa5Vaodq7s9YLh8>

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