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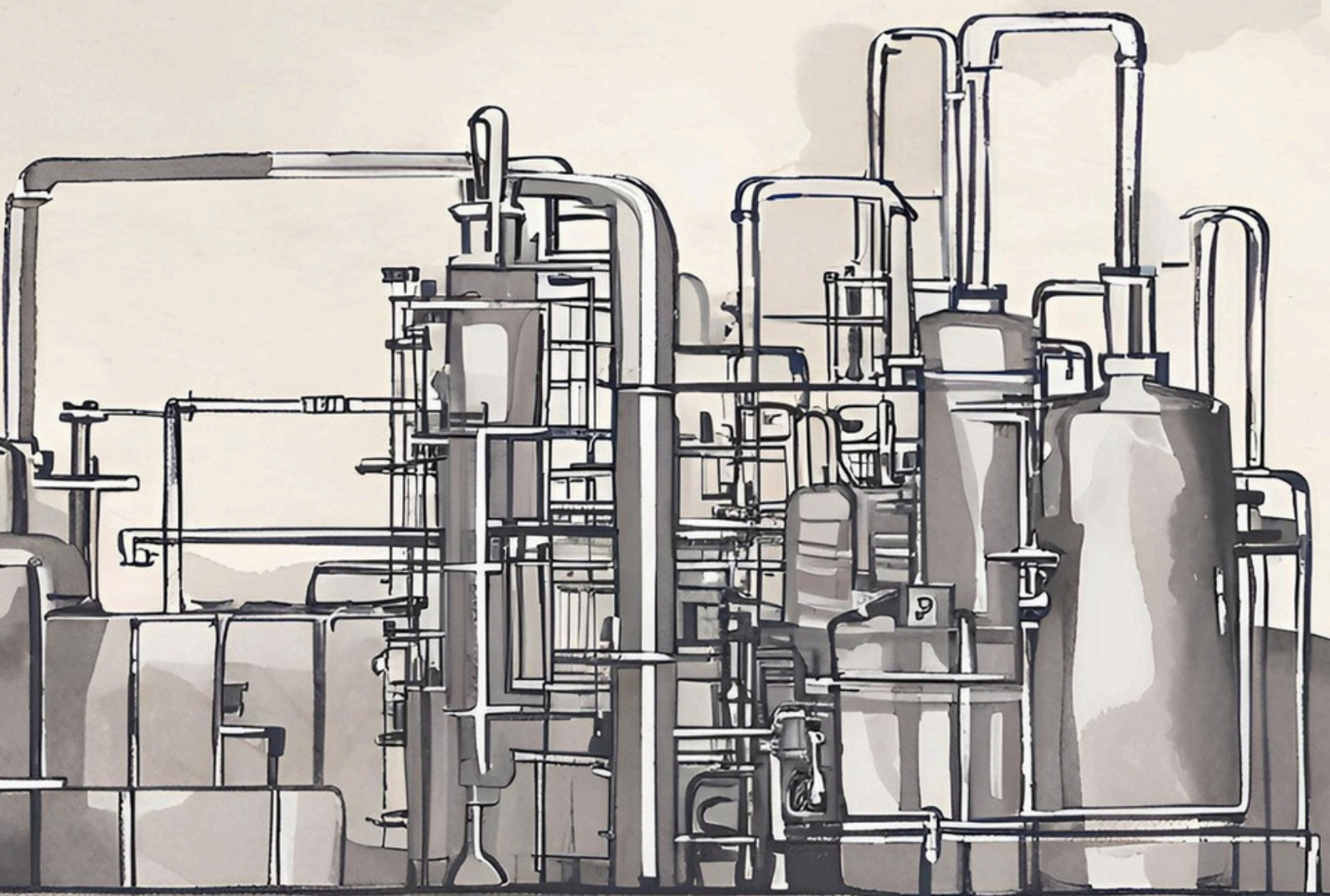
CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY
Autonomous Institute | Affiliated to Osmania University

ChemElite - 2023 - 2024

Volume - III

Empowering Knowledge, One Edition at a Time

Department of Chemical Engineering



Institute Vision

- To be a center of excellence in technical education and research.

Institute Mission

- To address emerging needs through quality technical education and advanced research.

Department Vision

- To become the most sought-after center of excellence for training and shaping students as professionals for higher education and process industries in India and abroad.
- To enable students to undertake R&D projects and publish their work in reputed journals.

Department Mission

- Imparting contemporary technical education and training manpower.
- Creating a skilled human resource talent pool.
- Serving and managing process industries globally with a responsibility toward society and the environment.





ChemElite: Showcasing the Spirit of Chemical Engineering

ChemElite is the official newsletter of the Chemical Engineering Department, launched in 2021 to celebrate its vibrant community and accomplishments. Each issue provides a glimpse into the department's achievements, from academic and research milestones to industrial collaborations and student initiatives.

Designed to foster engagement, ChemElite features student projects, alumni stories, industry partnerships, and departmental events, offering a well-rounded view of the department's dynamic environment. The newsletter is curated by a dedicated editorial board comprising faculty and students, ensuring each edition reflects the department's commitment to innovation, excellence, and collaboration.

By sharing its achievements and vision, ChemElite strengthens the department's presence within the institute and beyond, building connections within its community and the wider professional world.

Editorial Team

The editorial board brings together a talented team of faculty and students:

- Chief Editors: Prof. M. Mukunda Vani & Dr. B. Ganesh
- Faculty Editors: Dr. P.V. Naga Prapura, Dr. M. Mallaiah, Sri. I. Bala Krishna, Dr. P. Madhuri, Dr. K. Prasad Babu, Dr. Prasanna Rani R., Dr. BVS Praveen, Dr. Raj Kumar Verma
- Chief Student Editors: Mr. Dhruv Gollapudi, Mr. Lingala Eswaraditya Reddy, Mr. Sheri Sai Kumar, Mr. E.G. Tanishq

ChemElite continues to serve as a bridge between the department's achievements and its aspirations, connecting its members and inspiring excellence at every step.



Principal's Message

It gives me immense pleasure to address the Department of Chemical Engineering through this newsletter. Over the past 44 years, CBIT has steadfastly strived to deliver quality education of international standards. With a legacy of nurturing engineering excellence, I am confident that our students, under the mentorship of our dedicated faculty, will emerge as skilled professionals ready to address the challenges of Industry 4.0 and the disruptions reshaping every industry.



CBIT prides itself on its strong industry partnerships. Leading organizations have established labs and collaborated on developmental projects within our campus, ensuring our students are exposed to real-world applications. Our curriculum is meticulously designed to meet industry demands by adhering to the AICTE Model Curriculum, the National Education Policy (NEP) 2020, and Outcome-Based Education (OBE). This structure fosters creative thinking, innovation, and the freedom to explore, aligning students with modern technological advancements.

To enhance employability, CBIT offers robust placement training and skill development programs. I encourage students to make the most of these opportunities and aim for their dream careers. Additionally, our well-established Entrepreneurship Development Centre (EDC) provides a platform for students to hone their entrepreneurial skills, contribute to the nation's progress, and embody our motto, "Swayam Tejaswin Bhava."

We have also cultivated a thriving ecosystem for startups and innovation. Through the guidance of faculty and industry experts, students are motivated to engage in research, innovation, patenting, and product development, focusing on sustainable technologies. These efforts underscore our commitment to fostering a culture of ideation and implementation.

CBIT emphasizes holistic development through a wide range of co-curricular and extracurricular activities. With over 54 active clubs, our students can explore their talents beyond academics, cultivating well-rounded personalities and responsible citizenship. I strongly encourage participation in sports, arts, leadership initiatives, and skill development programs, which add vibrancy and purpose to campus life.

As a proponent of pragmatic education, I firmly believe in the philosophy of "learning by doing." CBIT promotes experiential, project-based, and problem-based learning approaches to achieve the objectives of OBE. My vision, encapsulated in the "5Ps" — Placements, Publications, Projects, Patents, and Participatory Administration — serves as the cornerstone of our sustained excellence on national and international platforms.

At CBIT, we believe that the pursuit of excellence is a continuous journey. Our institute has contributed immensely to society by producing renowned technocrats, successful entrepreneurs, innovative scientists, and competent leaders. I urge all stakeholders to join hands in taking this institution to even greater heights.

Let us continue to innovate, inspire, and transform lives. Together, we can shape a brighter future for the Department of Chemical Engineering and CBIT as a whole.

Warm regards,
Dr. C.V. Narasimulu
Principal, CBIT



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HOD's Message

Greetings to all readers of the Chemical Engineering Department Newsletter!

The Department of Chemical Engineering at Chaitanya Bharathi Institute of Technology (CBIT), established in 1995, has been at the forefront of providing quality education and preparing students to excel in the ever-evolving field of chemical engineering. With multiple accreditations from the National Board of Accreditation (NBA), our department has consistently demonstrated its commitment to excellence in academics, research, and innovation.



Chemical engineering is a dynamic and interdisciplinary field that combines principles of chemistry, physics, biology, and mathematics to develop sustainable solutions for society's needs. From designing efficient industrial processes to contributing to advancements in biotechnology, nanotechnology, energy, and pharmaceuticals, chemical engineers play a vital role in shaping a better future.

At CBIT, we aim to nurture engineers who are not only technically proficient but also creative, innovative, and equipped with problem-solving skills. Our undergraduate program offers both regular and honors degrees, along with the flexibility for students to pursue a Minor degree in other fields. This holistic approach to education ensures our graduates are well-prepared to address real-world challenges and contribute meaningfully to industry and research.

The department has always been proud of its strong ties with industry and academia. Our alumni have gone on to work in prestigious organizations such as Pfizer, Sanofi, and Takeda Pharmaceuticals, and many have pursued higher education and research opportunities globally. This success is a testament to the rigorous training and support provided by our highly qualified faculty, whose expertise spans diverse areas of chemical engineering.

In line with our motto, "We bring Chemical Engineering into Life," we encourage students to actively engage in research, innovation, and experiential learning. The department's focus on sustainable technologies, digitalization, and interdisciplinary collaboration ensures that our students remain at the cutting edge of this ever-expanding field.

Chemical engineering at CBIT is not just about academics—it's about holistic development. We encourage our students to participate in technical symposiums, workshops, and extracurricular activities that foster leadership, teamwork, and creativity. Our alumni network further strengthens the department, providing mentorship and opportunities for current students to connect with industry leaders.

I invite you to stay engaged with the Department of Chemical Engineering through this newsletter and welcome you to participate in our initiatives and events. Together, let us continue to advance the boundaries of chemical engineering and make a lasting impact on society.

Sincere regards,
Dr. M. Mukunda Vani
Head of Department
Chemical Engineering, CBIT



Coordinators Message

Dear Readers,

It is my privilege to present the latest edition of the Chemical Engineering Department Newsletter, a platform that celebrates the achievements, events, and innovations of our vibrant community at Chaitanya Bharathi Institute of Technology (CBIT).



Chemical engineering is a field of immense potential, addressing critical challenges in industries such as energy, environment, healthcare, and materials. This newsletter aims to showcase the remarkable contributions of our students and faculty in advancing these areas through academic excellence, research, and industry collaborations.

As the Coordinator of this newsletter, I am inspired by the dedication and creativity of our department. Each article, feature, and update is a reflection of the hard work and enthusiasm that define the spirit of CBIT's Chemical Engineering Department. From student projects and faculty research to industrial partnerships and alumni success stories, this newsletter serves as a bridge connecting our department to a broader audience.

I encourage everyone to actively engage with the content, celebrate the accomplishments of our department, and contribute to its ongoing success. Together, let us continue to push the boundaries of innovation and bring the transformative power of chemical engineering to life.

Warm regards,

Dr. B. Ganesh

Faculty and Newsletter Coordinator
Department of Chemical Engineering, CBIT



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CHEMICAL ENGINEERING DEPARTMENT News

Letter Information (AY 2023-24)

Departmental Activities

Industrial Visits Organized for the Academic Year 2023-24

S.No	Name of the Industry Visited	No.of students Participated	Faculty Participated	Date of Visit
1	Hetero labs Limited, Hyderabad	43	Sri I. Bala Krishna, Dr Raj Kumar Verma Sri Sanjiva Reddy	05-07-2023
2	IICT, Hyderabad	40	Dr.M.MukundaVani, Dr.P.Madhuri and Dr. K. Prasad Babu	14-07-2023
3	Prathista Industries Limited, Hyderabad	40	Dr. BVS Praveen and Dr Rupam Sinha	27-09-2023
4	Apitoria Pharma Ltd. Hyderabad	55	Dr. B Ganesh Sri Raj Kumar	16-03-2024



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Industrial Visit Report: Hetero Drugs Ltd (05.07.2023)

On 5th July 2023, a group of 43 students from the Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology (CBIT), along with faculty members Sri I. Bala Krishna, Dr. Raj Kumar Verma, and Sri Sanjeeva Reddy, visited Hetero Drugs, a prominent pharmaceutical manufacturing unit.

The objective of the visit was to provide students with practical exposure to the operations of the pharmaceutical industry and to observe the processes involved in drug production. The facility showcased advanced infrastructure, cutting-edge machinery, and state-of-the-art quality control laboratories.

This visit offered students valuable insights into pharmaceutical manufacturing processes, quality control practices, and compliance with regulatory standards. It emphasized the critical role of technology, automation, and safety protocols in drug production.

Overall, the visit enriched the students' understanding of pharmaceutical operations and underscored the industry's significance in safeguarding public health and well-being.



**B.Tech IV sem Students along with HOD, Chemical Engg & Faculty Members at CBIT
Campus for Hetero Drugs Industrial Visit**



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Industrial Visit Report: CSIR-IICT (14.07.2023)

On 14th July 2023, 40 second-year Chemical Engineering students from Chaitanya Bharathi Institute of Technology (CBIT), accompanied by faculty coordinators Dr. M. Mukunda Vani, Dr. P. Madhuri, and Dr. K. Prasad Babu, visited the Indian Institute of Chemical Technology (CSIR-IICT) in Hyderabad.

CSIR-IICT is a premier research institute conducting advanced research in chemistry, biochemistry, bioinformatics, and chemical engineering, contributing to industrial and economic growth. The visit aimed to provide students with practical insights into process design and technology development for organic intermediates, fine chemicals, catalysts, polymers, and related fields.

The students gained valuable exposure to advanced analytical instruments such as Mass Spectrometry (MS), High-Performance Liquid Chromatography (HPLC), and Nuclear Magnetic Resonance (NMR). Eminent scientists, Dr. Sanjay and Dr. Shyam Sundar, provided detailed explanations about the role of these instruments in analyzing, characterizing, and understanding various compounds.

Additionally, students had the unique opportunity to explore the National MOL Bank, guided by Dr. Naveen, a distinguished scientist. This cutting-edge facility demonstrated advanced systems for compound storage and retrieval, ensuring long-term stability and reliability for research purposes.

The visit proved instrumental in bridging the gap between theoretical knowledge and practical applications, particularly in areas like analysis, design, and operations. It enriched the students' understanding of the scientific and technological tools that drive innovation in chemical engineering and related disciplines.



Eminent Scientists at CSIR-IICT, Explaining the students elaborately the diverse array of Instruments



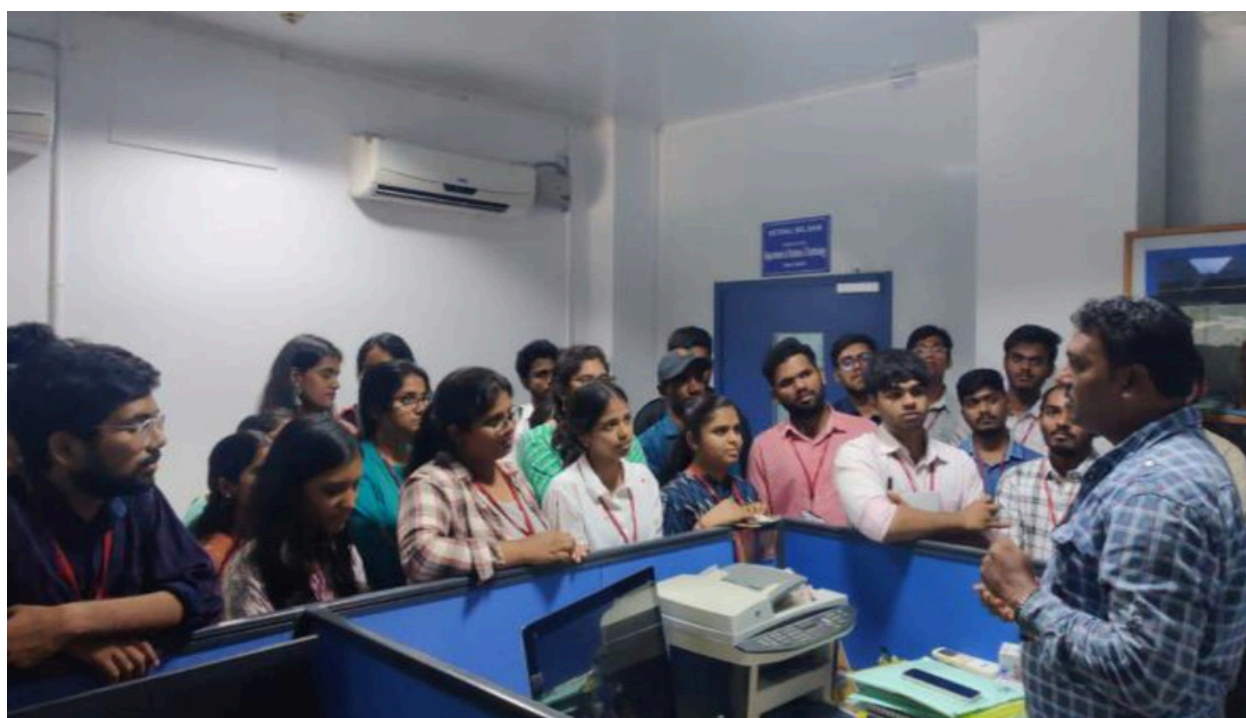


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Students interacting with the eminent scientists





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Industrial visit organized on 27.09.2023 to Prathista Industries

A total of 40 Chemical Engg students from the 3rd Year, along with faculty Dr. BVS Praveen and Dr Rupam Sinha, representing CBIT Engineering College., visited Prathista Industries Ltd Swamivari Lingottam (Village), Yadadri-Bhongir District on 27th September 2023. Prof. M. Mukunda Vani, HOD, Chemical Engg has coordinated the visit. Prathista is a leading producer of Natural, Clean Label, non-GMO nutraceuticals (Food Ingredients) through the fermentation process & FSSAI licenses products - Govt. of India along with other global certifications like " USFDA, Kosher, & Halal. The objective of the industrial visit is to provide the students with the added advantage of better understanding the key elements implicitly used in adding value to carbohydrates through advanced Bio-Technology processes, strategically focusing on key areas to align with the nation's needs. These thrust areas include Agro Bio-Technology, Food and Industrial Biotechnology, and Pharma Biotechnology. Dr. Abhishek Mathur, GGM R&D/QC/QA, provided comprehensive explanations to the students about crucial unit operations and processes, including mixers, plate and frame filter presses, and industrial vacuum dryers. He also covered essential tests necessary for analyzing food samples. Moreover, he emphasized the importance of Industrial Waste Management, highlighting biotechnological approaches to transform waste into valuable resources. The major outcome of this visit is that it helped the students to relate their theoretical knowledge with practical aspects of their study covering the curriculum related to design and operation.



Industrial Visit to Prathista Industries on 27-09-2023



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Community Outreach to Devuni Erravelly Village on 04.10.2023

The 1st-year Chemical Engineering students of Chaitanya Bharathi Institute of Technology (CBIT), with support from ACIC-CBIT, visited Devuni Erravelly village, Chevella Mandal, as part of the Community Engagement course. This activity aims to instill a sense of responsibility and civic engagement among students, encouraging them to understand the societal impact of their chosen field. By participating in such initiatives, students gain practical, real-world experiences while contributing to social awareness and development.

During the visit, students explored the village in groups, interacting with residents on various aspects such as education, health, sanitation, agriculture, and infrastructure. This interaction highlighted the importance of holistic learning beyond the classroom. Notably, the village's well-developed roads and access to clean drinking water reflect significant infrastructure progress. These observations help students appreciate the advancements and identify areas needing further improvement in rural communities.

The students and faculty also had the opportunity to engage with the village Sarpanch, Sri S. Manikya Reddy garu, to discuss the villagers' daily lives and challenges. The students were guided by faculty members, including Prof. M. Mukunda Vani, Dr. R. Prasanna Rani, Dr. Raj Kumar Verma, and Mr. Atheeq Hussain from ACIC-CBIT. The program was coordinated by Mrs. Annie Vijaya, the center head of ACIC-CBIT. The event successfully provided students with valuable insights while fostering a commitment to community involvement.





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Students Interacting with the Sarpanch of the Village



Faculty Coordinators Interacting with the Sarpanch of the Village

**Industrial visit organized on 16.03.2024 to Apitoria Pharma Ltd, Hyderabad**

Chemical engineering students were given permission for a one day visit to one of the most esteemed industry “Apitoria Pharma Ltd (formerly known as Aurobindo Pharma Limited)”. Aurobindo Pharma Limited is an Indian multinational pharmaceutical manufacturing company headquartered in HITEC City, Hyderabad, India. The company manufactures generic pharmaceuticals and active pharmaceutical ingredients. The company’s area of activity includes six major therapeutic and product areas: antibiotics, anti-retrovirals, cardiovascular products, central nervous system products, gastroenterologicals, and antiallergics. The company markets these products in over 125 countries. Its marketing partners include AstraZeneca and Pfizer. A total of 56 Chemical Engg students from 2nd year along with three faculty coordinators Dr. B. Ganesh, Sri. I. Balakrishna, Mr. Raj Kumar representing CBIT Engg College., have visited Apitoria Pharma Ltd , Unit-II , Hyderabad on 16 th March 2024. Prof. M. Mukunda Vani, HOD, Chemical Engg. has coordinated the visit. The objective of the Industrial visit is to provide the students with added advantage of gaining a better understanding of the key elements implicitly emphasized on various Process Engineering activities and related operations. The students were exposed to various important unit operations and process. This industrial visit has not only enhanced their theoretical knowledge but also helped them to experience working environment in a chemical process plant. The industry expertise Mr. Sridhar Surath, Plant Head Operations, Mr. Murthy, HR Head and Mr. Satish, TS Head have explained the students elaborately, some of the important unit operations & processes such as: Batch Reactors, Separators, Drying process , Agitation , Precipitation process, Sieving operation, Vacuum distillation process and Solvent recovery . The major outcome of this visit is that, it helped the students to relate their theoretical knowledge with practical aspects of their study covering the curriculum related to design and operation



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Glimpses from the Industrial Visit to Apitorua Pharma Limited



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Guest lectures

1. Mr. Kartikeya Baldwa (batch 2006), Founder & CEO, KSM-66 Ashwagandha & Mr. Phani Kumar Varma Kalidindi (Batch 2006), F5, Director of Technology Services, have delivered an engaging lecture titled "Start-up Essentials: Crafting Your Path to Success" on 26th Feb 2024 & "Cultivating an Entrepreneurial Mindset: Pathways to Success", on 17th October 2023 to 2nd, 3rd & 4th yr students to enlighten the enthusiastic students on the essential elements required to succeed in the start-up world.





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2. A CEO Speak session was conducted on “Health Care for All : An Overview of the Pharmaceutical Industry and its Dynamics” by Dr.V.Prasada Raju, Managing Director and CEO, Cohance Lifesciences Limited, Hyderabad on 25th November, 2023.



3. An invited guest lecture was delivered by Dr.Akio Elbihara, Faculty of Applied Biological Sciences, Gifu University, Yanagido, Gifu, Japan & Academic Coordinator, International joint master's degree program in food science and technology, IIT Guwahati on “Prospects of Food Biotechnology for Chemical Engineering & Biotechnology” on 19th November, 2023.





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4 . A guest lecture was delivered on “Emerging innovations in chemical industry towards sustainability” by Mrs. P. Soumya, Assistant Professor, Chemical Engineering, JNTUH, on 30 August 2023.





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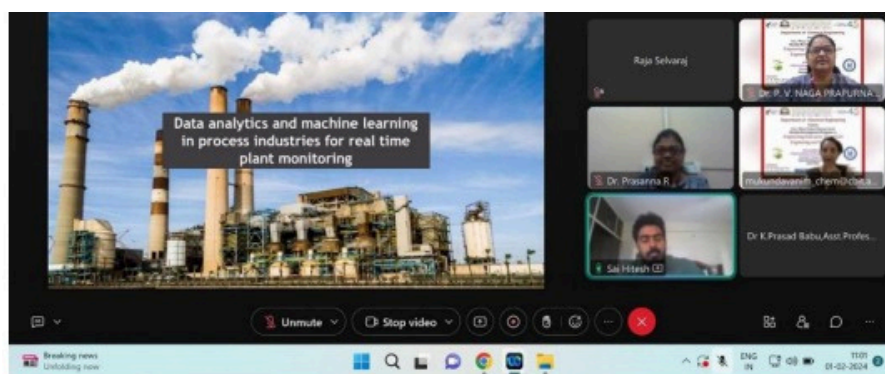
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Workshops, FDPs and conferences organized

1. The Chemical Engineering Department organized an eight-week online workshop, "Data Science for Chemical Engineers," held from October 7 to December 2, 2023. This program aimed to enhance students' skills and knowledge in key areas, covering foundational concepts in data science such as data analysis, machine learning, and data visualization, with a particular emphasis on applications in chemical engineering.



2. The Department of Chemical Engineering at CBIT, Hyderabad, has organized a one-week online National-level Faculty Development Program (FDP) titled "Empowering Educators: AI Tools for Engineering and Technology" from January 29 to February 2, 2024. This FDP is a comprehensive initiative aimed at equipping educators in engineering and technology with the knowledge and skills needed to integrate artificial intelligence (AI) tools into their teaching and research practices.





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3 . The department has organized CHEMSPARK 2024, a National technical symposium, as part of SUDHEE on 26th & 27th Feb 2024. The event served as a platform for students of Chemical Engineering and allied disciplines to present their work and engage with peers. As the field of Chemical Engineering experiences rapid technological advancements across various sectors, CHEMSPARK was aimed to highlight these developments through paper and poster presentations, technical quizzes, and other related events.



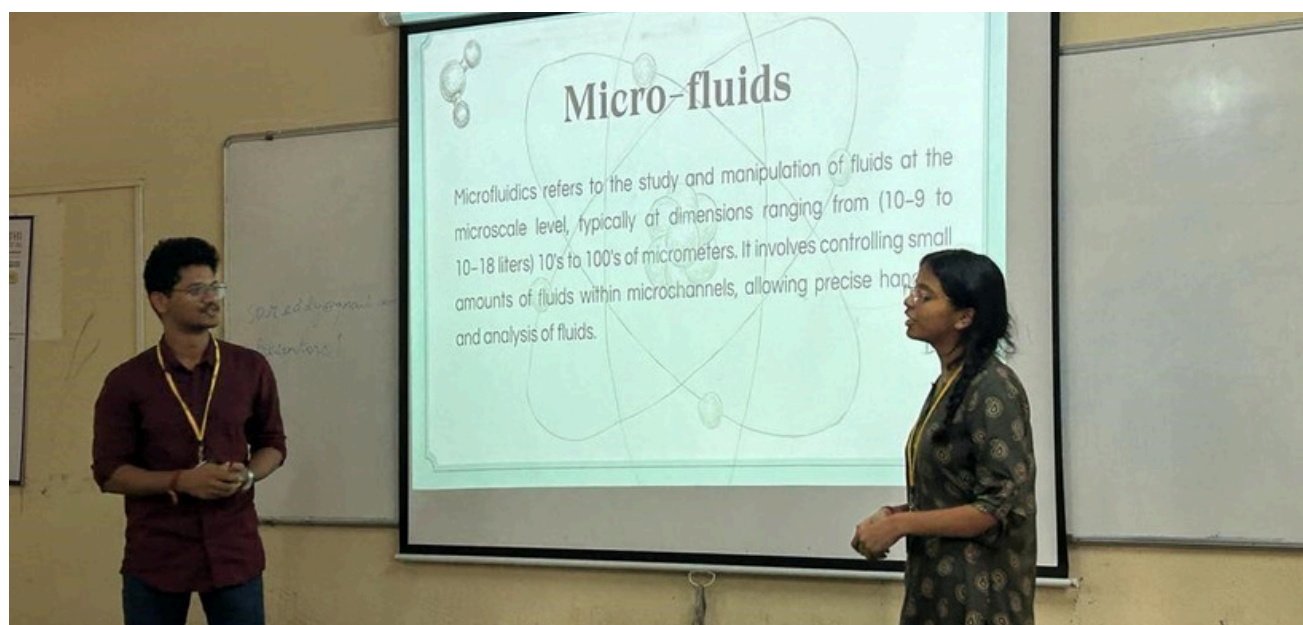


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Research Day

The research day 2023 is conducted on 18-11-2023. Commemorating CBIT's 45 years of successful Journey in the field of technical education, the Institute is celebrating its first RESEARCH DAY on 18th November 2023. Research day is a focused initiative with an objective to change the image from an Under Graduate Engineering College to Research focused Institute and to expand the base to encourage Research Scholars, Students, Faculty to showcase their Research. As a part of the Research day celebrations, exciting Prizes will be awarded to the best Research Papers/ Posters / Exhibitors/ Products under various Categories. A total 22 abstracts received for presentation. Finally, 17 the abstracts have accepted for oral presentations. Dr. Rajmohan KS, Assistant Professor, NIT Warangal is the judge for the technical session. The best paper presentation is awarded to Mahammad Shaheen, BVRIT, Narsapur.





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Department was organized various activities under IICHe student chapter,

SNo	Name of the Activity	Date of conduct	Details
1	IICHe HRC Inter college competitions	13th April 2023	Essay writing, Elocution, Technical Quiz, Scientific Model Making/ Modeling and Simulation
2	Guest Lecture	13th April 2023	Innovation Ecosystem in India by Dr. Sanjay Bhardwaj, Head CTAT, ARCI, Hyderabad
3	Industrial Visit	04th April 2023	Nuclear Fuel Complex, Hyderabad
4	IICHe- HRC Lecture Series – Lecture 12	31st March 2023 at 6.00 pm, Online	Building Pragmatech: My journey as an entrepreneur; from problem to solution whilst chasing impact by Mr. Anirban Palit, Co-founder and Managing Director, Pragmatech Healthcare Solutions Pvt Ltd
5	Industrial Visit	16th March 2023	CIPET, Hyderabad
6	Chemspark 2k23	31st January- 1st February 2023	Technical Paper Presentation, Technical Quiz, Poster Presentation, Idea Presentation, Model Making, etc
7	Keynote talk	31st January 2023	Overview of Energy Scenario & Sustainable development measures in Process Industries by Sri Mikkilineni Akkaiah Choudary, Retd. General Manager, Indian Oil Corporation Limited Refineries Division,
8	IICHe- HRC Lecture Series – Lecture 09	11th November 2022 at 6.00 pm, Online	Computational thinking in Chemical Engineering by Dr. Srinivasa Mohan, Senior Principal Application Specialist Ansys

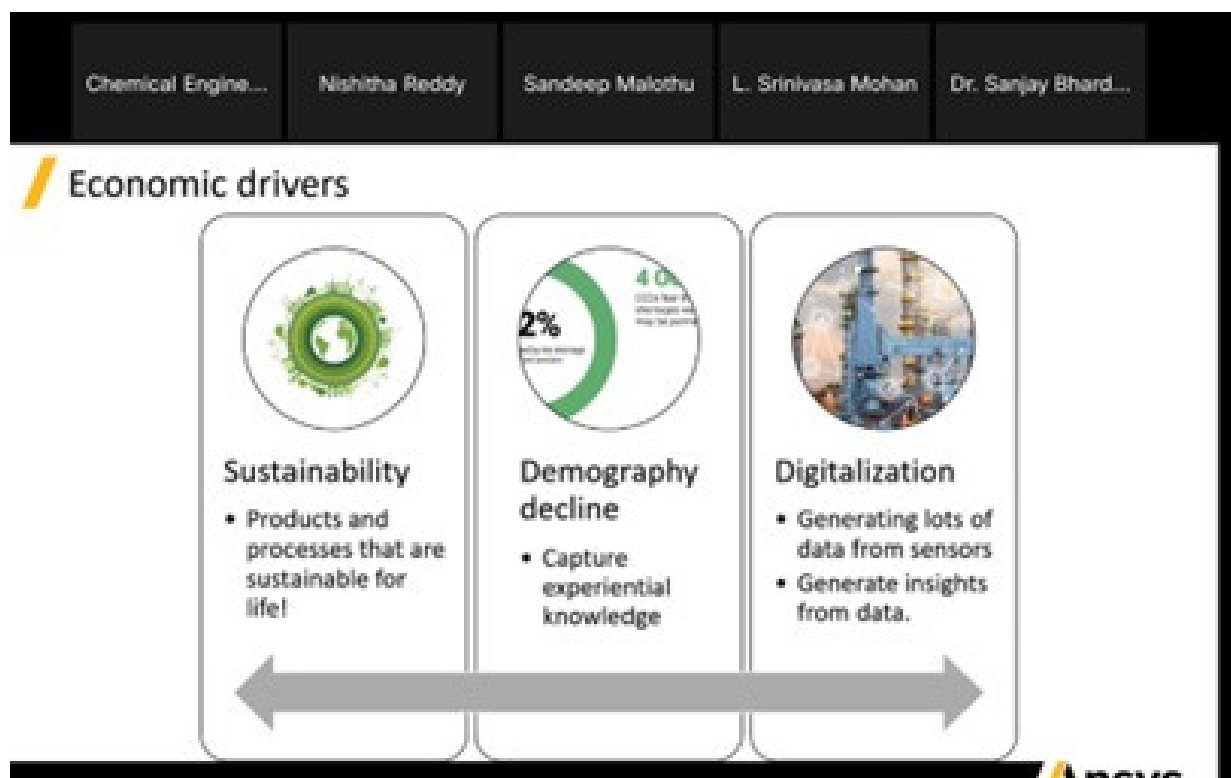
> The Department of Chemical Engineering of the institute in association with the Indian Institute of Chemical Engineers, Hyderabad Regional Centre (IICHe HRC) conducted a Lecture Series -9 on the topic of Computational Thinking in Chemical Engineering on the 11th of November in online mode . The lecture series was started by welcoming all the dignitaries by Nishitha Reddy. Later the event proceeded with the Prayer song by Sai Sriya Kala .

Right after the prayer song Dr. Sanjay Bhardwaj , Chairman, IICHe -HRC addressed the audience and the dignitaries . After the welcome address Dr. K. Prasad Babu, CBIT IICHe Student chapter Coordinator introduced our speaker to the audience.



Lecture Series

Exploring Computational Thinking in Chemical Engineering: Insights by Dr. Srinivas Mohan



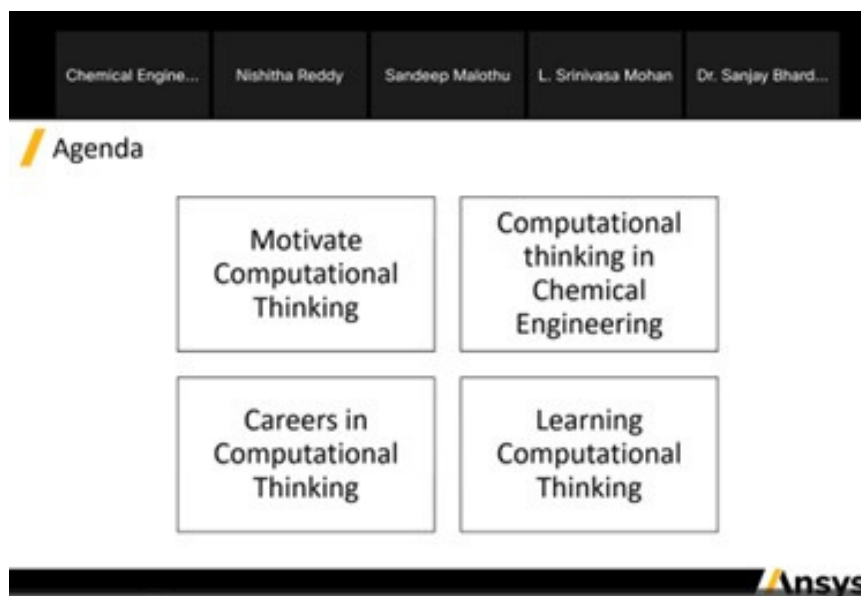
Following the introduction, Dr. Srinivas Mohan, Senior Principal Application Specialist at Ansys, commenced the session with an engaging address. He began by explaining the concept of computational thinking and its pivotal role in the field of chemical engineering. Dr. Mohan elaborated on how computational thinking serves as a problem-solving framework that combines logical analysis, pattern recognition, and algorithmic approaches to tackle complex engineering challenges.

He also provided an insightful overview of the fundamental principles behind computational thinking and emphasized its relevance in modern engineering practices. Additionally, Dr. Mohan shed light on the basics of pursuing a career in computational thinking, outlining the skills, tools, and knowledge required to excel in this domain. He shared valuable guidance on career pathways, highlighting opportunities for chemical engineers in industries that increasingly rely on computational methods for process optimization, simulation, and innovation. His address set the tone for a thought-provoking session, offering students and attendees a comprehensive understanding of the subject.



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Followed by sir also briefed about the illustration to the computational thinking, models in Chemical engineering. And explained about the scale up through computational thinking. After the brief overview on computational thinking the lecture series followed by the questionnaire session where students and the other audience had clarified their respective doubts with the guest speaker .

After the questionnaire session , Dr,K.Prasad babu , Faculty coordinator IICHe Student Chapter Hyderabad had presented a vote of thanks . Later to which the event concluded with the National Anthem and a group photo.

Nishitha Reddy	L. Srinivasa Mohan	Anush	 Dr. Sanjay Bhardwaj	 Chemical Engineering Depart...
Jadav Jagadeesh	KRISHNA SHANKAR	M Mukunda Vani	Arshid omesh	Sk Shaheda
Manoj C	Dr.B.Ganesh	Ganesh Kadam	1601-21-802-028 Ga...	RAJA VARDHAN
Praveen 35	Uppara Kalyani	kersagar jyothi	Kammari Shivani	Dhruv Gollapudi

The Department of Chemical Engineering of the institute in association with the Indian Institute of Chemical Engineers , Hyderabad Regional Centre (IICHe HRC) conducted a Lecture Series -12 on the topic of My Journey as an entrepreneur from problem to solution whilst chasing impact on the 31st March ,2023 in online mode . The lecture series was started by welcoming all the dignitaries by Nishitha Reddy. Later the event proceeded with the Prayer song by Sai Sriya Kala.

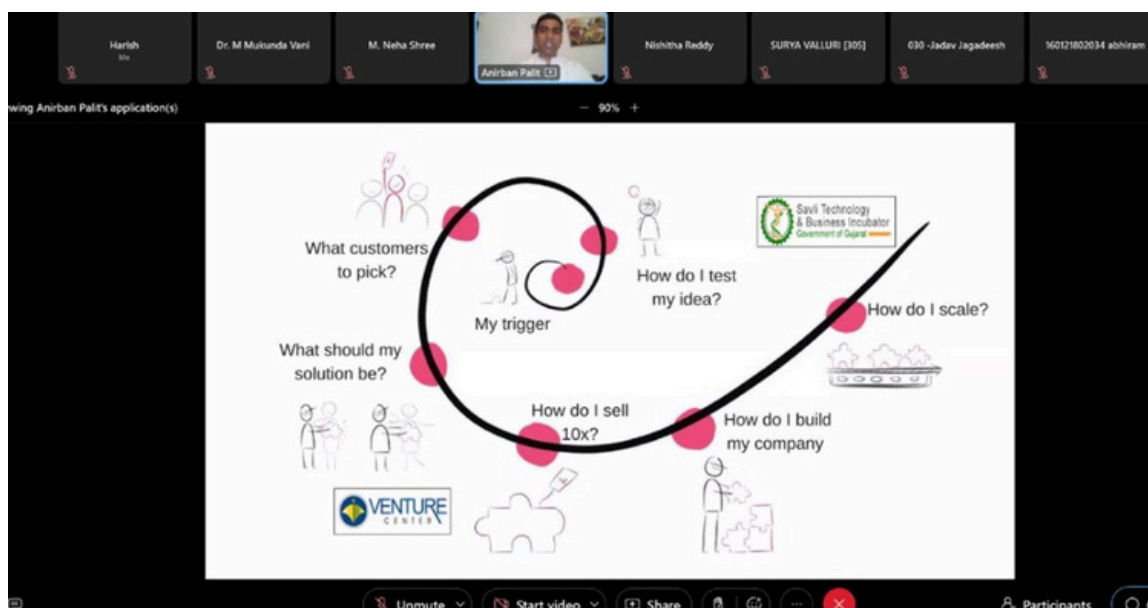


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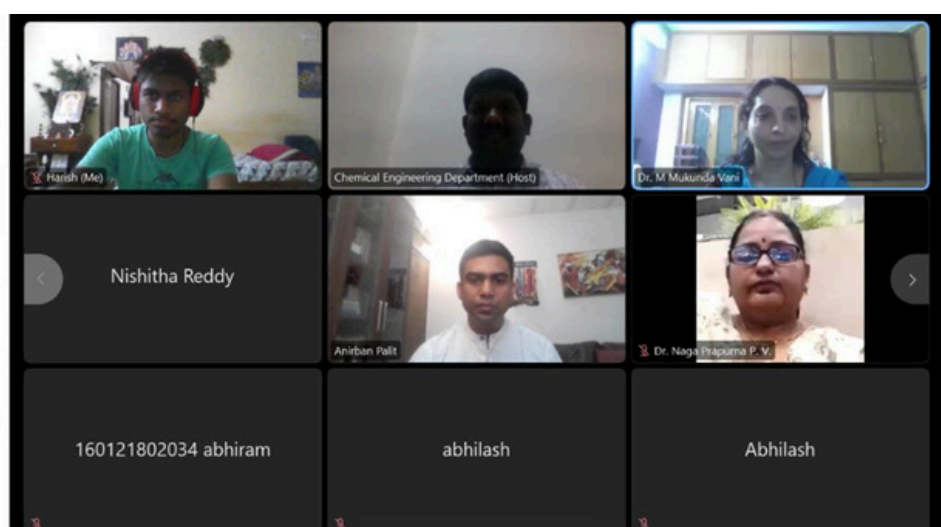
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Right after the prayer song Dr. Sanjay Bhardwaj , Chairman ,IICHe -HRC addressed the audience and the dignitaries . After the welcome address Dr. K. Prasad Babu ,CBIT IICHe Student chapter coordinator introduced our speaker to the audience .

After the introduction MR. Anirban Palit sir took over the session . Sir started by addressing Journey as an entrepreneur from problem to solution whilst chasing impact.



Followed by sir also briefed about the journey and his problems faced as an entrepreneur In the pragmatech solutions .He addressed about the importance for the periodic cervical cancer and its awareness in the current society.



After the brief overview on the lecture series followed by the questionnaire session where students and the other audience had clarified their respective doubts with the guest speaker .



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After the questionnaire session, Dr.K.Prasad Babu, Faculty coordinator IICHe Student Chapter Hyderabad had presented a vote of thanks . Later to which the event concluded with the National Anthem and a group photo.

> The Department of Chemical Engineering had organised Inter-College Competitions in association with Indian Institute of Chemical Engineers- Hyderabad Regional Centre. This competition has seen participation from over more than 6 different colleges in and out of Hyderabad.



Inter college competition Brochure

The event commenced at 10:00AM with an inaugural session .Before the session begun the lightning of lamp along with an invocation song by Sai Sriya student from 3rd year chemical engineering from CBIT .After the invocation song the inaugural session proceeded with the welcoming address by the dignitaries .The details and overall overview on the competition was shared by Dr.M.Mukunda Vani



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HOD Chemical Engg, CBIT. After to which Dr.NLN Reddy Head placements ,CBIT welcomed the participants and various faculties .Later to this the Principal,CBIT delivered the welcome address and addressed about the importance of different student chapters and how student can learn more and expand his/her knowledge. After this we had address by Dr. Sanjay Bhardwaj Chairman, IICChE-HRC where in sir addressed about the competitions.



After the welcoming address of the dignitaries Principal CBIT along with Dr.NLN Reddy had felicitated all the EC members .Which was followed by a Vote of thanks by Dr.K.Prasad Babu, Coordinator- IICChE-CBIT Student chapter which marked as the end of the inaugural session. Later a 10 min of High tea break was followed.



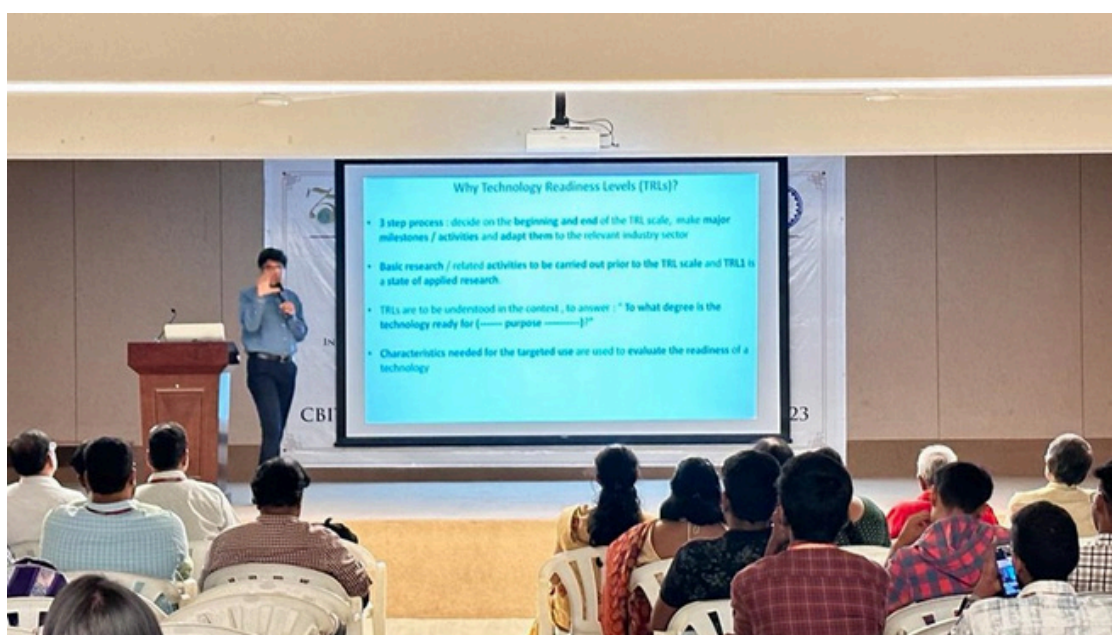


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After the tea break the guest lecture by Dr. Sanjay Bhardwaj Chairman, IICChE-HRC on the topic Innovation Ecosystem in India commenced. The lecture delivered some valuable outputs to the audience on how the whole innovation ecosystem in India works. The session concluded followed by lunch.





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Post Lunch the inter-college competitions had begun in which participants actively took part in all the competitions which concluded the Inter-College Competitions.



Model Making Exhibition



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IIChe – HRC -INTER-COLLEGE COMPETITIONS

DECCAN NEWS SERVICE
HYDERABAD

Indian Institute of Chemical Engineers – Hyderabad Regional Centre (IIChe – HRC) in collaboration with Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad has organized Inter-College Competitions 2023. The Chief guest for the programme is Dr. Sanjay Bhardwaj, Head-CTAT, ARCI, HYD and Chairman of IICHE – HRC. Senior HRC members



graced the occasion along with Principal Dr.P. Ravinder Reddy. The Chief guest deliv-

ered a lecture on "Innovation Ecosystem in India". Chemical Engineering students from 9 colleges namely OUCT, JNTU, IIIT Basara, BVRIT, BITS Pilani, Hyderabad campus, NIT Warangal and CBIT have actively participated and showcased their talent in different competitions like Model making, Technical quiz, Essay writing and Elocution. The senior HRC members judged the competitions. The programme was chaired by Dr. Mukunda Vani and coordinated by Dr. K. Prasad Babu along with faculty of the Department.



MOUs signed

CBIT has signed MoUs with industries relevant Chemical Engineering program with an objective to collaborate for research work in areas of mutual interest, curriculum based student internships, student placements, student major projects, expert lectures, student seminars, workshops, industry employee training needs, to assess and improve program curriculum.

The few active MoUs as on date are with:

- 1) MSN Laboratories Private Limited, Rudraram, Telangana to train 110 executive employers in two batches for a period of 45 days over a period of two years on Advanced Chemistry and Engineering Principles Certificate course. The key take-away shall be understanding and proficiently applying engineering concepts in the day-to-day responsibilities of the trainees.
- 2) Prathista Industries Limited, Hyderabad to share the expertise available at both ends for mutual benefits in the field of education, training, social development through curriculum based student internships, student placements, expert lectures, to assess and improve program curriculum.
- 3) Tripura biotech limited, Hyderabad to provide students with internships, placements, and to involve in department committee to assess and improve program curriculum.



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2. On 22-06-2024, CBIT signed MoU with MSN laboratories Private Limited, Rudraram, Telangana for a Training project worth Rupees Rs.14,75,000. The objective is to facilitate training sessions on Advanced Chemistry and Engineering Principles Certificate course for 50 employees of MSN Labs. The faculty of Chemical Engineering Department, CBIT shall train them in CBIT campus for 45 days spread over a period of two years, evaluate them and issue certificates.



Signing MoU between CBIT and MSN for Batch-2 training on 29-01-2024



Signing MoU between CBIT and MSN for Batch-2 training on 22-06-2024



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With CBIT Team and MSN Labs and Batch-1 Trainees on 11-05-2024



With CBIT Team and MSN Labs and Batch-2 Trainees on 22-06-2024

CONSULTANCY

On 29-01-2024, CBIT signed MoU with MSN laboratories Private Limited, Rudraram, Telangana for a Training project worth Rupees Rs.14,16,000. The objective is to facilitate training sessions on Advanced Chemistry and Engineering Principles Certificate course for 60

employees of MSN-API Production Department, in CBIT campus, for 45 days spread over a

period of two years. The faculty of Chemical Engineering Department, CBIT shall train the

employees, evaluate and issue certificates.



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Student internships (BVSP)

S.No.	Year	Sem	Industry/Online	NPTEL
1 2	IV IV	II I	1955	- -
3	III	I	45	-
4	II	I	19	20

Student participation – co-curricular and extra-curricular (RPR)

The students of Chemical Engineering have excelled academically, achieved remarkable academic success, excelled in research, shown exceptional leadership skills and bagged diverse co-curricular and extracurricular achievements. The students participated in many prestigious national competitions across India such as Technosmania-2024 (Osmania University), NMTEA-2024 (BITS Hyderabad), SREE-2024 (NIT Jalandhar), Annamalai University, MIT Pune, ChemEEE-2024 (IIPe Vizag), NCEEE-2023 (NIT Warangal), Schemcon-2023 (Kongu Engineering College), Chemcon-2023 (IChE-Kolkata), BVRIT, MGIT etc. and bagged multiple prizes in various categories. Our students have also shown a record of extracurricular achievements. Overall, their accomplishments highlight a blend of academic excellence, leadership, and creative talent.

	Number of students Participated	Awards won in various events
Co-curricular activities	78	40
Extracurricular activities	32	8

Student Awards



Mr. Amay Vanneldas - Topper, Silver Medalist and Vice President - IV Year



Ms. Chendana - Topper - III Year



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Academic Awards - Shruthi - 2024



Ms. Anna Thomas - Topper - II Year



Ms. Bhanu Sri - Topper - I Year

Co-curricular Achievements:

Academic Excellence:

- Mr. Amay Vanneldas received the "Best Outgoing Student" award and a Silver Medal for 2023-24.
- Mr. S. Kalyan Sai was honored with the "Best Outstanding Student" award by the Knowledge Research Academy.

Research Achievements

- Mr. Anvith and Mr. Varaprasad secured first prizes for paper presentations at Schemcon-2023 and Technosmania-2024, respectively.
- Ms. Ramya Ravali and Ms. Varsha Yalala won first place in a poster presentation at Technosmania-2024.
- Best poster awards at NMTEA-24 were achieved by teams led by Mr. Anvith, Ms. Sravya, and Mr. Aman.
- Mr. Dhruv published a paper in *Materials Today Proceedings* and won the Best Paper award at Research Day – 2024.
- Mr. Udesb and Mr. Omesh earned Best Presentation awards at SREE-2024, NIT Jalandhar.
- Research Funding:
 - In-house seed grants were awarded to research teams led by Mr. Udesb and Mr. Amay, showcasing their innovative contributions.



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Mr. S. Kalyan Sai won "Best Outstanding student"
from Knowledge Research Academy – 2023-24



Mr. S. Kalyan Sai won
"Best Outstanding student"
from Knowledge Research
Academy – 2023-24



Ms. Sathwika and Mr. Abhilash
received 1st prize in Idea presentation
@Technosmania -2024



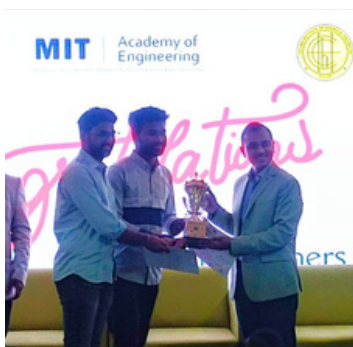
Ms. Ramya Ravali and Ms. Varsha Yalala won 1st
prize in poster presentation @Technosmania -2024



Mr. Anvith and Mr. Varaprasad won 1st prize in
paper presentation @Schemcon-2023, Kongu Engg.
College



Mr. Aman Dubey received best poster award,
NMTEA-2024 BITS Hyderabad.



presentation – MIT Pune – 2024



Mr. Chandrakanth and Mr. Nithesh won 1st prize in oral



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Ms. Sathwika and Mr. Abhilash received 1st prize in Business plan competition – BVRIT-2024



Ms. Sathwika, Mr. Abhilash, Mr. Karthik, Mr. Praneeth Kumar received 3rd prize in Shark Tank – MGIT -2024



Ms. Nissy and Ms. Chitra Bhanu received 3rd prize in oral presentation at Annamalai University, 2024



Ms. Vaishnavi won 1st prize in ACE-EPI Idea Exploration 3.0 –2024



Ms. Sravya Kolluru received 1st prize in writing competition, IIC CBIT 2023



Ms. Likhitha Shanmukhi won 1st prize in Quiz competition, IIC CBIT 2023



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- ❖ Mr. Udesb and Mr. Omesh student research grant – 2024-25.
- ❖ Mr. Dhruv, published a paper in Materials Today Proceedings, co-authored with Mr. Eswar Aditya, Mr. Gaurav, Ms. Sravya and Dr. Gubbala Ramesh.
- ❖ Mr. Anvith and Mr. Varaprasad won 1st prize in paper presentation @Technosmania -2024
- ❖ Ms. Sathwika and Ms. Shruthi received 1st prize in Debate competition @Technosmania -2024
- ❖ Mr. Udesb and Mr. Omesh won Best presentation in SREE-2024, NIT Jalandhar
- ❖ Mr. Anvith won best poster award, NMTEA-2024 BITS Hyderabad.
- ❖ Ms. Jyothi and Ms. Sravya won best poster award, NMTEA-2024 BITS Hyderabad.
- ❖ Ms. Sathwika, Mr. Abhilash, Mr. Karthik, Mr. Praneeth Kumar received 3rd prize in Shark Tank

- ❖ Ms. A. Rithvika won 2nd prize in oral presentation at Chemspark-2024, CBIT.
- ❖ Mr. Aman Dubey won 2nd prize in oral presentation at Chemspark-2024, CBIT.
- ❖ Mr. Syed won 1st prize in poster presentation at Chemspark-2024, CBIT.
- ❖ Mr. Gavrav won 1st prize in model making at Chemspark-2024, CBIT.
- ❖ Ms. Anna Thomas won 2nd prize in model making at Chemspark-2024, CBIT.
- ❖ Mr. Tharun, Mr. Praveen Kumar won 1st prize in Quiz competition at Chemspark-2024, CBIT.
- ❖ Mr. Dhruv Gollapudi won Best paper award on Research Day – 2023.
- ❖ Ms. Shruthi B won 2nd prize in Extempore competition, Ms. Ch. Ashritha won 2nd prize and Mr. Dhruv Gollapudi won 3rd prize in Essay writing competition; Mr. Armaan and Mr. Farhaan won 2nd prizes, Ms. Varsha and Mr. Sharath received consolation prizes in Quiz competition held as a part of National Education Day - 2023, IIC CBIT, Nov. 2023.

Co-curricular and Extracurricular Achievements

In leadership and community engagement, our students have taken on significant roles that showcase their commitment beyond academics. Mr. Udesb received the Community Innovation Fellowship by NITI Aayog – ACIC-CBIT for 2024-25 underscoring their proactive involvement in innovation. Our

students have also excelled in extracurricular activities. Ms. Chitra Bhanu was honored to be the

Captain of the CBIT Women's Volleyball Team for 2023-24. Mr. Dhruv and his band, Midnight City,

achieved first place at multiple music competitions, including Nirvana 2024 (MGIT), the Battle of

Bands at Swarakruthi 2024 (BVRIT), and Infinity 2024 (Woxsen University).

Ms. Nishitha Reddy led Chaitanya Samskriti as President 2023-24





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while Mr. Vishnu Revanth Reddy was named
President of Chaitanya Kreeda -2023-24



Ms Chitra Bhanu represented CBIT as Captain of
Women's Volley Ball



Mr. Udesb received Community Innovation
Fellowship – NITI Aayog – ACIC-CBIT -2024-
25



Mr. Dhruv, along with the Band (Midnight City)
won First place at Nirvana - 2024 – MGIT.



Ms. Shruthi Boddupalli represented CBIT as the
Student SPOC for INSPIRE Hyd 2024.



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- ❖ Mr. Alia Akash and team won runners in Kabaddi-Men, Shruthi-2024.
- ❖ Mr. Dhruv, along with the Band (Midnight City) won First place at the Battle of Bands - Swarakruthi 2024 – BVRIT.
- ❖ Mr. Dhruv, along with the Band (Midnight City) won First place at Infinity - 2024 – Woxsen University.

Student publications

- ★ Four journal publications and one book chapter were published, with 9 students actively contributing as co-authors. A total of 33 conference presentations were delivered with
- ★ active participation from various students, showcasing their research findings and project outcomes. These presentations provided students with the opportunity to share their work with the broader academic and professional community, engage in discussions, and receive valuable feedback. The experience also contributed to their professional development by enhancing their presentation skills, expanding their network, and exposing them to the latest advancements in their field.

	Faculty Achievements	Total Number
I.	Awards won by the faculty	09
II.	Faculty Interaction with outside world	04
III.	Faculty as Resource Persons	14
IV.	Faculty participation in seminars, workshops, FDPs	20

Faculty achievements

Faculty participation in seminars, workshops, FDPs

I. Awards won by the faculty

- 1) Dr. M Mukunda Vani received Best Researcher Award for the Contribution and Honourable Achievement in Innovative Research in 10th Edition of International Research Awards on Advanced Nanomaterials and Nanotechnology (September 2023)
- 2) Dr. M Mukunda Vani received High Appreciation for significant contributions to IChE-HRC at Indian Institute of Chemical Engineers, Hyderabad Regional Centre on 29th July 2023.
- 3) Dr. M Mukunda Vani received Best Presentation Award at International conference on Sustainable Research Energy and Environment (SREE-2024), 5-6 April, 2024
- 4) Dr. M Mukunda Vani received Best Paper Award at 19th Annual Session of Students Chemical Engineering Congress (SCHEMCON 2023), organized by IChE Students Chapter, Kongu Engineering College, Perundurai in Association with IChE-CRC, Coimbatore
- 5) Dr. P.V. Naga Prapurna, won the "Best Inspiring Teacher" award, Instituted by Knowledge Research Academy, International Award Ceremony on Academic Achievers in Higher



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Educational Institutions (AAHEI 2023), Coimbatore, Tamil Nadu

- 6) Dr. P. Madhuri won "Best Young Researcher Award" from Novel Research Academy for academic contribution in Science & Technology under the category of "Chemical Engineering" Specialization.
- 7) Dr. Prasanna Rani R won the "Best Faculty" award, Instituted by Knowledge Research Academy, International Award Ceremony on Academic Achievers in Higher Educational Institutions (AAHEI 2023), Coimbatore, Tamil Nadu
- 8) Dr BVS Praveen won the "Best Researcher Award" in an International Award Ceremony on Academic Achievers in Higher Educational Institutions organized by Knowledge Research Academy Coimbatore, Tamil Nadu, India.
- 9) Dr Raj Kumar Verma won the "Best Young Researcher Award" in an International Award Ceremony on Academic Achievers in Higher Educational Institutions organized by Knowledge Research Academy Coimbatore, Tamil Nadu, India.

Interaction with Outside world

S.No	Name of Faculty	Interaction outside institute	Role and responsibility
1)	Dr. M Mukunda Vani	Appointed as resource person for training program Conducted by Engineering staff college of India (ESCI), at Hyderabad, 4th -23rd December 2023	to train newly Recruited GP - A Officers (Probationers) of Military Engineer services
2)	Dr. M Mukunda Vani	Appointed as subject expert for training program Conducted by Engineering staff college of India (ESCI), at Lakshadweep, 19-21 March 2024	to train newly Recruited GP - A Officers (Probationers) of Military Engineer services
3)	Dr. M Mukunda Vani	Appointed as Member of Selection Committee for CSIR-IICT Notification No. 06/2024, May 2, 2024	Walk-in Interviews for Research associates
4)	Dr. P.V. Naga Prapurna	Appointed as Advisor member by State Board of Technical Education & Training, Telangana, Hyderabad. for Diploma in Chemical Engineering (CH) team.	Preparation of C-24 Curriculum, gap analysis for C-21 with respect to CO PO Mapping along with the structure of the new Curriculum.



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Faculty as Resource person

Sl. No.	Faculty Name	Event in which acted as resource person	Role	Name and Details of the events
1.	Dr. M Mukunda Vani	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023
2.	Dr. M Mukunda Vani	AOSS-5, 2023	Session Chair	Asia Oceania Sono Chemical Society 2023, NIT Warangal, 28-30 September. 2023
3.	Dr. M Mukunda Vani	IChE-Chemcon 2023	Session Chair	International Conference on Energy Transition: challenges and opportunities, Heritage Institute of Technology, Kolkata, December 27-30, 2023
4.	Dr. M Mukunda Vani	National Workshop	Delegate	CSIR-NEERI, Hyderabad, 06-10-2023
5.	Dr. P.V. Naga Prapurna	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023
6.	Dr. P.V. Naga Prapurna	National Workshop	Delegate	CSIR-NEERI, Hyderabad, 06-10-2023
7.	Dr. Prasanna Rani R	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023
8.	Dr. Prasanna Rani R	FDP	Resource Person for 1 session	One- week Online Faculty development program on "Empowering Educators: AI Tools for Engineering and Technology" organized by the Department of Chemical Engineering, CBIT Hyderabad.



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9.	Dr. Prasanna Rani R	IIC Event	Speaker	Speaker for National Youth Day Event - Youth and Innovation
10.	Dr. Prasanna Rani R	ACIC-GRIP Program	Evaluator	ACIC-GRIP Program
11.	Dr BVS Praveen	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023
12.	Dr BVS Praveen	FDP	Resource Person	Current Science and Development in nanobiotechnology
13.	Dr BVS Praveen	FDP	Resource Person	One- week Online Faculty development program on "Empowering Educators: AI Tools for Engineering and Technology" organized by the Department of Chemical Engineering, CBIT Hyderabad.
14.	Dr Raj Kumar Verma	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023

IV. FDP/Workshop/Seminar attended by Faculty

Sr. No.	Faculty Name	Event Name	Date of event from and to	National / International	Name and Details of the Conference
1)	Dr.M Mukuna Vani	OneWeek International Short Term Training Program (Online)	09-10-2023 to 13-10-2023	International	Recent Advancements in Fuel Cell and Hydrogen Storage, Department of Mechanical Engineering, Anurag University, in Collaboration with Centre for New Energy Transition Research, Federation University Australia



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2)	Dr. P.V. Naga Prapurna	Faculty Development Program (online)	21-08-2023 to 25-08-2023	National	Recent Trends in Exergy and Sustainability" IICHE Students' Chapter, School of Chemical Engineering, MITAoE, Alandi (D), Pune
3)	Dr. P.V. Naga Prapurna	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.
4)	Dr. P.V. Naga Prapurna	e - STC (Short term course)	15-01-2024 to 19-01-2024	National	Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024), organised by Department of Chemical Engineering at NIT, Hamirpur
5)	Dr. P. Madhuri	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.
6)	Dr. P. Madhuri	Faculty Development Program (online)	20-11-2023 to 01-12-2023	National	Data Analytics with Excel - Basics to Advanced, organized by Department of Management Studies - Dayananda Sagar College of Engineering in Collaboration with ExcelR Edtech Pvt. Ltd.



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7)	Dr. P. Madhuri	Faculty Development Program (online)	22-01-2024 to 27-01-2024	National	"Quality Education through OBE", organized by CBIT in association with IEEE Education Society Student Branch Chapter during January 2024.
8)	Dr. Prasanna Ramireddy	e-STC (Short term course)	15-01-2024 to 19-01-2024	National	Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024), organised by Department of Chemical Engineering at NIT, Hamirpur
9)	Dr. BVS Praveen	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.
10)	Dr. BVS Praveen	Faculty Development Program (online)	20-11-2023 to 01-12-2023 (> 5 days)	National	Data Analytics with Excel - Basics to Advanced, organized by Department of Management Studies - Dayananda Sagar College of Engineering in Collaboration with ExcelR Edtech Pvt. Ltd.
11)	Dr. BVS Praveen	Faculty Development Program (online)	18-12-2023 to 22-12-2023	National	Sustainability in Process Engineering, Organized by Department of Chemical Engineering, Dr. Vishwanath Karad, MIT World Peace University, Pune, India



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12)	Dr. Raj Kumar Verma	Faculty Development Program (online)	18-12-2023 to 22-12-2023	National	Sustainability in Process Engineering, Organized by Department of Chemical Engineering, Dr. Vishwanath Karad,
13)	Dr. Raj Kumar Verma	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	MIT World Peace University, Pune, India Water Management (IWWM-2023), organised by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.

Faculty publications (Conference, journals, patents etc)

Patents detail:

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Title of the Patent	Applicant/s Name
1	202321037934	Published	A REACTIVE DISTILLATION METHOD FOR PARTIAL GAS PHASE OXIDATION BY HETEROGENEOUS CATALYSIS	BVS Praveen
2	380822-001	Granted	A Novel Device Using Enzymatic Biosensors For Pesticides	Dr. R. Venkat Reddy; Dr. M Mukunda Vani; Dr.S V G V A PRASAD; Dr Lakshmi D

Publications details:

Academic Year	International Journal		National Journal	Book Chapter	International Conference	National Conference	Total
	WoS	Scopus					
2023-24	8	4	1	8	14	2	37



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R and D (Funded projects, consultancies)

Sr. No.	PI (Faculty)	Project title	Funding agency name	Amount Sanctioned		
1	Dr. M.Mallaiah	Production of biodiesel from waste oil esterification	CBIT (A) Hyderabad (Seed grant)	50,988/-	26.03.2024	1 year
2	Dr. Raj Kumar Verma	Fabrication of continuous micro reactor for the electro chemical reduction of CO ₂	CBIT (A) Hyderabad (Seed grant)	1,93,000/-	26.03.2024	1 year
3	Dr. Mukundavani	Synthesized Nanoparticle coated membranes for CBIT (A) Hyderabad (Seed grant) Microbial Fuel Cell Applications	CBIT (A) Hyderabad (Seed grant)	2,30,277/-	26.03.2024	1 year
4	Dr. P. Madhuri	Pulp, Handsheet and Black Liquor Characterization of Hardwood Species (Beach Sheoak) after Kraft Cooking and Bleaching Process	CBIT (A) Hyderabad (Seed grant)	2,38,670/-	26.03.2024	1 year
5	Dr. P V Naga Prapurna	Harnessing natural value added products from floral waste: Sustainable	CBIT (A) Hyderabad (Seed grant)	50,957/-	26.03.2024	1 year



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		approach towards zero waste				
6	Dr. Prasanna Rani R	Valorization of fruit peel waste as a potential source to produce Cu nano particles for insitu trapping of nutrients for modern agricultural practices	CBIT (A) Hyderabad (Seed grant)	1,57,854/-	26/3/24	1 year
7	Dr. B. V. S. Praveen	Synthesis of carbon dots from water melon peel for the sensing of CrVI in water samples and photo detection applications	CBIT (A) Hyderabad (Seed grant)	1,63,049/-	26.03.2024	1 year
8	Dr. Prasanna Rani R	Sustainable bio plastic film from agriculture residues with egg shells as plasticizer for biodegradable bags	CBIT (A) Hyderabad (Seed grant)	43,205/-	26/3/24	1 year
9	Dr. P. Madhuri	Synthesis of Biodegradable catalyst and its utilization for biodiesel Production using Non-edible oils	CBIT (A) Hyderabad (Student Project)	25000	26.03.2024	1 year



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10	Dr. P. Madhuri	Innovative Application of Dry Waste (Leaves & Flower Petals) in Eco-Friendly Pulp and Paper Production	CBIT (A) Hyderabad (Student Project)	17000	26.03.2024	1 year
11	Dr. P. Madhuri	A Novel utilization of dry leaves for synthesis of Bio-adsorbents	CBIT (A) Hyderabad (Seed grant)	20956	26.03.2024	1 year
12	Dr. B. V. S. Praveen	Extraction of silica from rice husk ash and utilization for waste water treatment	CBIT (A) Hyderabad (Seed grant)	10000	26.03.2024	1 year
13	Dr. M Mukunda Devani	Development of cellulose nano crystals with cotton plant extract as a membrane	CBIT (A) Hyderabad (Seed grant)	10000	26.03.2024	1 year
14	Dr. M Mukunda Devani	Pyrolysis of waste plastic to functional oils		30000	26.03.2024	1 year
15	Dr. Prasanna Rani R	Synthesis, Characterization of biodegradable plastic films using RSM	CBIT (A) Hyderabad (Seed grant)	38000	26/3/24	1 year
16	Dr. Prasanna Rani R	Turning trash into treasure: Plant and waste derive nano materials for agricultural advancement	CBIT (A) Hyderabad (Seed grant)	37100	26/3/24	1 year



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S.No	Project title	Funding agency name	Amount
1	Training to the MSN Employees – batch -1	MSN Laboratories Pvt Ltd., Hyderabad	₹ 14,16,000
2	Training to the MSN Employees – batch -2	MSN Laboratories Pvt Ltd., Hyderabad	₹ 14,75,000
		Total	₹ 28,91,000



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The Department of Chemical Engineering has been actively organizing and participating in various events and initiatives from January 1, 2024, to date. Key activities include a one-week Faculty Development Program on AI tools for engineering, attracting 200 participants nationwide. The department also hosted the "CHEMSPARK-2024" symposium, featuring student technical paper presentations and competitions. Notable guest lectures were delivered by alumni, emphasizing start-up success and research opportunities. Additionally, an industrial visit to Apitoria Pharma Ltd. and a two-year training program for MSN employees were organized. The department also signed a significant consultancy MOU with MSN Laboratories and is currently managing 22 research projects funded by the institute.



Signing MOU with MSN laboratories



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Industry visit to Hetero Drugs Limited



Industry visit to IICT, Hyderabad



Alumni Contributions / Interactions



Mr. Prathik, our alumnus (2020 batch) donating his books to the department library for the benefit of the students.

The support and vision of our alumni stand as defining features of a distinguished higher learning institution. To attain true greatness, the proud alumni have played a pivotal role in propelling the department, to the forefront.

1. Mrs. Sireesha Vudatha (2000 batch), Cyber Security Senior Manager, Accenture Federal Services, Washington DC delivered a guest lecture on "Global Career Prospects in Chemical Engineering", on 31st July 2023 for 3rd & 4th yr students. The guest lecture had a significant positive impact on undergraduate students by expanding their knowledge, motivation, and career prospects in this dynamic and diverse field.



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Mrs. Sireesha Vudatha's lecture was a valuable experience for students, enhancing both their technical and managerial skills.

2. On August 19, 2023, Ms. P. Sreevani, a senior business analyst at Aveva from the 2008 batch, delivered a guest lecture for final-year students on "Prospects for Students of Chemical Engineering Abroad in the IT Field." On the same day, Mr. Himanshu Vemula, a 2016 batch alumnus and Director of Biosephia Organic Solutions, presented a guest lecture on "Entrepreneurship & Start-Up."



Ms. P. Sreevani & Mr. Himanshu Vemula lecture was a valuable experience for students, providing them with newfound perspective on career possibilities

3. Mr. Kartikeya Baldwa (batch 2006), Founder & CEO, KSM-66 Ashwagandha & Mr. Phani Kumar Varma Kalidindi (Batch 2006), F5, Director of Technology Services, have delivered an



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engaging lecture titled "Start-up Essentials: Crafting Your Path to Success" on 26th Feb 2024 & "Cultivating an Entrepreneurial Mindset: Pathways to Success", on 17th October 2023 to 2nd, 3rd & 4th yr students to enlighten the enthusiastic students on the essential elements required to succeed in the start-up world.



The intellectual contributions by Mr. Kartikeya Baldwa & Mr. Phani Kumar Varma Kalidindi had a positive and lasting impact on the students

4. Ms. M. Sejal (Batch 2002), Associate Program Manager – KekaHR, delivered a guest lecture on 17th October 2023 4th yr students on "Unlocking Career Avenues-The Intersection of Chemical Engineering and Management". The guest lecture was a valuable experience for students, providing them with inspiration, practical insights, and a newfound perspective on career possibilities that leverage both technical and managerial skills.



Ms. M. Sejal delivering lecture to 4th yr students

5. Ms. T. Aarthi (Batch 2019) Research Associate @ IICT, Hyderabad, delivered a guest lecture on 11th Nov 2023 for 2nd yr students on "Exploring Frontiers: Research Opportunities in the R&D Sector for Chemical Engineering Graduates". The guest lecture encouraged the students to consider and pursue the vast array of research opportunities available to them as they embark on their post-graduation journey in chemical engineering.



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6.

Ms. T. Aarthi delivering lecture to 2nd yr students

Dr. Siva Ramya Sanam (batch 2009), Principal Scientist CSIR-NEERI, Hyderabad) and Mr. A Jagadishwar Kumar (Alumnus Batch 2002), CEO & Managing Director, Punya Herbals Private Limited, Mr. V. Himanshu (batch 2016), Director, Biosephia Organic Solutions Private Limited & Mr. Phani Raj Kiran (batch 2016), Head of operations, Sales & Marketing Prathista Industries Limited., provided internships at their firms that resulted in valuable outcomes for interns, research organizations, and the broader scientific community, with benefits ranging from enhanced skills to environmental impact and contributions to scientific knowledge.



Mr. A Jagadishwar Kumar
(Batch 2002), CEO & Managing
Director, Punya Herbals Private
Limited



Mr. Himanshu Vemula
(Batch 2016)
Business Manager- Biosephia
Hyderabad



Mr. Phani Raj Kiran (Batch: 2016)
Managing director for Tripura Bio
Tech Limited



Dr. SIVA RAMYA SANAM
(Batch: 2008)
Pr. Scientist, CSIR-NEERI,
Hyd

7. Mr. Anil Chowdary (Batch 2012) Managing Director, Green Waves Environmental Solutions and Ms. Sindhuja Talla (Batch: 2018) Founder of Biosephia Engineering Services, served as a Mentor & Supervisor to the participants, that competed in Ideathon 2023 hosted by ACIC-CBIT. The presence of industry mentors added an invaluable dimension to the experience, offering expert insights and practical advice to help shape and refine the innovative concepts taken up by the students.



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

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Mr. ANIL POTLURI (Batch: 2011)
Managing Director of Green
Waves Environmental Solutions,
Hyderabad



Ms. Sindhuja Talla
(Batch: 2018) Founder of
Biosephia Engineering Services

8. Mr. Ravi Kumar, a 2003 batch alumnus and the Lead Commissioning Engineer at MODEC, Singapore., interacted with the students and faculty to discuss the prospects for chemical engineers in the Oil & Gas industry. He also provided insights on potential modifications to the syllabus to better align it with the latest developments in the field.



Mr. Ravi Kumar interacting with HOD & faculty members

9. Dr. A. Srinivas (batch 2000), Associate professor, BITS Pilani was involved in BOS discussions as a member. Having alumni as members of the Board of Studies is a mutual beneficial arrangement, with the potential to improve educational quality, enhance career prospects for students, and strengthen the bond between the institution and its graduates. He also delivered a guest lecture on "Exploring the Future of Chemical Engineering in Research and Academia", for 2nd yr students during 23rd April 2024.



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Dr. A. Srinivas delivering guest lecture to 2nd YEAR Chemical Engineering Students

10. In an effort to strengthen connections and bridge the gap, the institute organized an annual

reunion day on 25th December 2024. This event is dedicated to celebrating the successes of our alumni, fostering stronger bonds, and exploring avenues for mutually beneficial relationships.



Alumni Meeting held at department of Chemical Engg on 25th December 2024