

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

Kokapet (Village), Gandipet, Hyderabad, Telangana - 500075

[www.cbit.ac.in](http://www.cbit.ac.in)

5.1.3 The following Capacity Development and Skill Enhancement activities are organised for improving students capabilities

1. Soft skills, 2. Language and communication skills, 3. Life skills (Yoga, physical fitness, health and hygiene), 4. Awareness of trends in technology

**Activity conducted for Capacity Development and Skill Enhancement during the academic year 2022-23**

**“AWARENESS OF TRENDS IN TECHNOLOGY”**

**Index**

**Part - 2**

<b>S. No.</b>	<b>Name of the Activity</b>	<b>Page No.</b>
1	An overview of petroleum refinery industry and job opportunities	2
2	Code Clash	9
3	Battery Monitoring System for Electric Scooter	15
4	WED (World Entrepreneurs Day) 2022	19
5	Entrepreneurial mindset for professional success	32
6	Crying Need in Bridge Engineering for Capacity Building	45

## 22-09-22 Guest Lecture Invitation - reg

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**Chemical HEAD** <hod\_chem@cbit.ac.in>

Wed, Sep 21, 2022 at 4:51 PM

To: "Dr.B.Ganesh Assistant Professor" <bganesh\_chem@cbit.ac.in>, balakrishna i <ibk@cbit.ac.in>, Placements HEAD <placements@cbit.ac.in>, pydimalla madhuri <pmadhuri\_chem@cbit.ac.in>, "Dr.P.V.Naga Prapura Associate Prof." <nagaprapurna\_chem@cbit.ac.in>, "Dr. B V S Praveen" <bvspraveen\_chem@cbit.ac.in>, "Dr. Raj Kumar Verma Assistant Professor" <rajumar\_chem@cbit.ac.in>, "Dr. Mekala Malliah Associate Professor (Contract )" <mallaiah\_chem@cbit.ac.in>, "prasannarani\_chem Asst. Professor" <prasannarani\_chem@cbit.ac.in>, "Sri K.Prasad Babu Assistant Professor" <kprasadbabu\_chem@cbit.ac.in>, "K.SATYANARAYANA Technician Gr I" <satyanarayana\_ntchem@cbit.ac.in>, "V.SANJEEVA REDDY SPP IA Technician Gr III" <vsanjeevareddy\_ntchem@cbit.ac.in>, "M.LAXMANA CHARY Technician Gr I" <laxmanachary\_ntchem@cbit.ac.in>

To  
All Faculty and Staff,  
PFA

With regards,  
Incharge-HOD, Chemical Engineering Department  
CBIT(A), Hyderabad.



22-09-22 GL Invitation.docx  
59K

1686/Chemical Engg / Guest Lecture letter / 20-09-22 / P. V. Naga Prapurna

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

CHEMICAL ENGINEERING DEPARTMENT

20-09-2022

To  
**The Principal,**  
CBIT, Hyderabad

**Respected Sir,**

**Sub:** Request for permission to conduct EXPERT LECTURE for the benefit of B.Tech sem-V and sem-VII students and faculty, and also to sanction and release the required honorarium, transport charges and hospitality - Reg.

**Ref:** Email and telephonic communication with the Expert Speaker

With an objective to update chemical engineering students on the industrial aspects in the field of chemical and petrochemical engineering applications, it is proposed to organize EXPERT LECTURE by industry personnel, Sri. S. Chiranjeevulu on 22/09/2022 (Thursday) from 2:30 pm to 4:00 pm.

Details of guest lecture:

Class	Expert name & address	Topic	Venue	Date & time
B. Tech Sem VII & Sem V	<b>Chiranjeevulu. S</b> Retired Chief Manager (QC, R&D) Mangalore Refinery and Petrochemicals Ltd., ONGC <b>Email: chiruviju@gmail.com</b> Mobile: 9483510799	An Overview of Petroleum Refinery Industry and Job Opportunities	Chemical/ Biotech seminar hall M-002	22-09-2022 [THURSDAY] 2:30 pm to 4:00 pm

Hence, it is requested to accord permission for organizing the expert lecture for students and faculty and to also sanction and release the required charges to be paid towards honorarium and transport of Rs. 4,500 (Rupees Four Thousand Five Hundred only) to the speaker. Also please permit us to extend hospitality to the speaker through CBIT canteen.

Thanking you,

*Prasanna*  
Faculty coordinator:

1) Dr. Prasanna Rani R  
Assistant Prof., Chemical Engg

2) Sri. I. Bala Krishna *(Signature)*  
Assistant Prof., Chemical Engg

*(Signature)*  
20-09-22  
Dr P. V. Naga Prapurna  
Incharge HoD - Chemical Engg

Student coordinators:

1) Aman Dubey (160120802020)  
2) Nissy Ilaparthy (160120802011)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), GANDIPET,  
HYDERABAD-500075  
CHEMICAL ENGINEERING DEPARTMENT

**REPORT ON EXPERT LECTURE**

**Topic: An overview of the Petroleum Refinery Industry and Job opportunities**

**Date:** 22-09-2022      **Time:** 2:30 - 4:00 pm      **Venue:** Chemical/Biotech seminar hall M-002

**Speaker:** Sri. S. Chiranjeevulu, Retired Chief Manager (QC, R&D) Mangalore Refinery and Petrochemicals Ltd, ONGC.

**Faculty Coordinators:**

Dr. Prasanna Rani R, Sri. I. Balakrishna

**Student Coordinators:** Aman Dubey, I. Nissy; **Volunteers:** Avinash Reddy, Arshid Omesh, Mahathi Reddy – Sem V.

**Chair-** Dr. P.V. Naga Prapurna, Incharge-HoD

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

COMMITTED TO RESEARCH INNOVATION AND EDUCATION 44 years

Department of Chemical Engineering  
EXPERT LECTURE Talk  
on  
**OVERVIEW OF PETROLEUM REFINERY  
INDUSTRY AND JOB OPPORTUNITIES**  
By  
**Sri. S. Chiranjeevulu**  
Retired Chief Manager (QC, R&D)  
Mangalore Refinery and Petrochemicals Ltd., ONGC  
**22 September 2022**

With an objective to update the students of Chemical Engineering on the industrial aspects in the field of Chemical and Petrochemical Engineering applications, an EXPERT LECTURE was organized, where an eminent industry personnel, Sri. S. Chiranjeevulu delivered a talk on “An overview of the Petroleum Refinery Industry and Job opportunities”. The speaker had prominent experience in the petrochemical industries and refineries such as Mangalore refinery and petrochemicals LTD, Andhra Petrochemicals, Andhra Oxygen (P) LTD etc. The



lecture was aimed to the students of Sem-V and Sem-VII, to give them detailed idea of the petroleum industry and refineries and the scenario of the job opportunities in the related fields of chemical engineering. The speaker presented the structure of petroleum refinery, its products and grades. He gave information on the refineries, and the organizations present in India and worldwide. He briefed the importance of chemical engineering and motivated the students to take up higher studies and industrial jobs. After the talk by the speaker, there was interaction session for the students with the speaker. The students actively participated and posed loads of doubts and clarifications regarding the technical aspects of the industry as well as career orientated guidance. The speaker patiently responded to all the enthusiastic student and cleared their queries regarding their further studies and scope for chemical engineering in future.

The student coordinators team organized the lecture in coordination with the faculty coordinators. Ms. Mahathi and Mr. Omesh of 5th semester hosted the lecture and introduced the speaker to the staff & students. Mr. Aman dubey briefed about the profile of Sri. S. Chiranjeevulu, regarding his work experience and his tremendous achievements in the field of Petrochemical engineering. Faculty coordinator, Dr. Prasanna Rani R has expressed her profound thanks to the speaker for his informative talk about the Petroluem Industry. As a token of gratitude, the department felicitated the speaker with a plant Sappling. Finally, as closing remarks, Ms. Nissy expressed gratitude to the faculty and the speaker on behalf of all the students of chemical engineering for putting in efforts to arrange the Guest Lecture which was very beneficial to the students.





**Highlights of the lecture:**

1. Upstream and downstream projects
2. Distillation and Fractional Distillation
3. Operating units in the refinery
4. Important parameters of petroleum products
5. Refineries in India
6. Job opportunities for chemical engineers in India and Abroad



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS

Venue.

(Affiliated to Osmania University)

Academic and Examination Cell

MP-002

Guest lecture on 22/9/22 2-4 pm.

Provisional List of students on Rolls for the Academic Year 2022-23

Date of Commencement of Class work 22-08-2022

B.Tech. (CHEM) - V SEMESTER

Batch: 2020-21

S.No	Admn No.	Roll No.	Name of the Candidate	
1	20-8136	1601-20-802-001	ALEKHYA PITHANI	P. Alekh
2	20-8156	1601-20-802-002	ALLIKA PUTTALA	Ali Fay
3	20-8117	1601-20-802-003	ANJALI DASARI	Anjali
4	20-8160	1601-20-802-004	CHITRA BHANU P	B. Chitra
5	20-8149	1601-20-802-005	HARSHA PRADHA KADUMURU	K. Harsha
6	20-8141	1601-20-802-006	INDIRAMANI GUGULOTHU	G. Indiramani
7	20-8115	1601-20-802-007	LAALASA KUNAPAREDDY	L. Laalasa
8	20-8118	1601-20-802-008	MAHATHI REDDY PATLOLLA	Mahathi
9	20-8134	1601-20-802-009	MOUNISHA BEGUM SHAIK	Mounisha
10	20-8113	1601-20-802-010	NISHITHA REDDY NOMULA	Nishitha
11	20-8158	1601-20-802-011	NISSY KIRANMAI ILAPARTHY	Nissy
12	20-8144	1601-20-802-012	RITHVIKA ANGIKREKULA	Rithvika
13	20-8111	1601-20-802-013	SAI SRIYA KALA	Sai Sriya
14	20-8140	1601-20-802-014	SATHWIKA KADUDULA	→ Conference
15	20-8126	1601-20-802-015	SHRUTHI YERRAJU	Shruthi
16	20-8138	1601-20-802-016	SNEEGDHA ENDLA	Sneegdha E.
17	20-8116	1601-20-802-017	SRI VARDHINI BALE	→ Conference
18	20-8109	1601-20-802-018	SRINIKAG	→ Conference
19	20-8131	1601-20-802-019	AHMED NOORUL AMAN SUHRAWARDY	Absent
20	20-8120	1601-20-802-020	AMAN DUBEY	Aman Dubey
21	20-8107	1601-20-802-021	AMAY RAMDAS VANNELDAS	Amay
22	20-8130	1601-20-802-022	ANIL AJMEERA	AA Anil
23	20-8108	1601-20-802-023	ANVITH REDDY SINGIREDDY	Anvith
24	20-8132	1601-20-802-024	ARSHID OMESH	Arshid
25	20-8128	1601-20-802-025	AVINASH REDDY NOMULA	Avinash
26	20-8112	1601-20-802-026	CHANDRA KANTH REDDY KANTRA PALLY	Chandra Kanth
27	20-8151	1601-20-802-027	DHANUSH CHENGAL	C. Dhruv
28	20-8146	1601-20-802-028	FAREED AHMED MOHAMMAD	→ Ab
29	20-8121	1601-20-802-029	HARISH POTULA	Harish
30	20-8133	1601-20-802-030	JAGADEESH JADAV	J. Jagadeesh
31	20-8148	1601-20-802-031	JHUBAIR ALI SHAIK	Jhubair
32	20-8110	1601-20-802-032	KALYAN SAI SURYADEVARA	→ conference
33	20-8119	1601-20-802-033	MANOJ CHIPPA	Manoj

34	20-8124	1601-20-802-034	NIKHILREDDY SAYNOLLAGARI	Nikhil Reddy
35	20-8147	1601-20-802-035	NITHIN BOILLA	Nithin
36	20-8103	1601-20-802-036	NITIN VARMA YEATUCURI	Nitin
37	20-8137	1601-20-802-038	RUPESH GADDE	Rupesh
38	20-8122	1601-20-802-039	SAI RAJ MATTA	Sai Raj
39	20-8127	1601-20-802-040	SAI VAMSI KRISHNA MUVVA	→ confere
40	20-8145	1601-20-802-041	SAIKRISHNA RAJENDRA NANDAL	Sai Krishna
41	20-8143	1601-20-802-043	SUMANTH GODDENLA	Sumanth
42	20-8129	1601-20-802-044	SWAYAM RAJ YADAV C	Swamy
43	20-8123	1601-20-802-046	UDESH SALVER	Udesh
44	20-8150	1601-20-802-047	VARAPRASAD DUDAPAKA	Varaprasad
45	20-8142	1601-20-802-049	VISHNU REVANTH REDDY MANDHATI	Vishnu
46	20-8153	1601-20-802-050	VISHNU TEJA BELLAMKONDA	B.VISHNU TEJA
47	20-8135	1601-20-802-051	YOGESHWAR REDDY CHINTAREDDY	Ch. Yogeshwar
48	20-8152	1601-20-802-052	NICKEY CHEEKURUMALLI	Nicky
49	19-8169	1601-19-802-309	TALLA SANDEEP REDDY	T. Sandeep
50	20-8161	1601-20-802-301	PRANAY KUMAR T	Pranay
51	20-8162	1601-20-802-302	NAMPELLY DILIP KUMAR	N. Dilip
52	20-8163	1601-20-802-303	GAVANIABHINAY	G. Abhinay
53	20-8164	1601-20-802-304	CHINTHALA PRAKASH	Ch. Prakash
54	20-8165	1601-20-802-305	ALLAKONDA SHASHIPREETHAM	A. Shashi
55	20-8166	1601-20-802-306	JATOTH RAJITHA	Rajitha
56	20-8167	1601-20-802-307	BANOTH UPENDAR	→ Absent
57	20-8168	1601-20-802-308	DUNNA ARAVIND	→ Conference
58	20-8169	1601-20-802-309	BORGAM NITHESH	B. Nithesh

**DIRECTOR - AEC & CoE**

**PRINCIPAL**

Coordinator &  
Class Teacher  
Dr. Prasanna Kanit  
Kanit

19, 28, 207 are the absentees  
other who went for conference  
were permitted to go in  
between.





# CODECLASH

## COMPETITIVE CODING EVENT

### CBIT IEEE RAS STUDENT BRANCH CHAPTER



## A Brief Report

**Date:** 6<sup>th</sup> NOV 2023

**Duration:** 2 hours

**Details of the event:**

A coding competition, '**CodeClash**', was conducted by the Robotics and Automation Society Student Branch Chapter – CBIT, under IEEE, in associating with the Departments of Electronics and Communication Engineering and Information Technology, Chaitanya Bharathi Institute of Technology (A), Hyderabad, for all programming enthusiasts on 6th November 2022 from 5.00 pm to 7.00 pm online, a coding platform called '**Hackerrank**'. The event was hosted by the technical heads of the executive board of the student branch chapter, along with the Vice-Chair, where they were able to throw a light on the importance of coding in robotics and automation and the software development aspect of the field. A total of 38 teams (team of 2) registered and participated in the event, with a total of 54 participants from Chaitanya Bharathi Institute of Technology (A), Hyderabad.

**Round 1:** Basic programming and coding skills were put to test, with 2 most basic level questions, such as Data Structures, like linked list, etc., and the time given was 30 minutes, i.e., 15 minutes for each question. This round was to test the fundamentals of the programming and how well the students are able to interpret, comprehend and use the primary knowledge required to code as data structures are the foundations of programming. This round was to filter the 38 teams to round 2, where 18 teams were able to solve the both questions and successfully made it to the next round.

**Round 2:** The questions in this round require experience and intermediate knowledge in programming to test the problem-solving skills of the participants. The time given from 2 questions (1 medium level, 1 hard level) was 60 minutes (30 minutes for each question to solve). Out of 18 teams, 5 teams conquered the round by completely solving both the questions, but only two winning teams were chosen based on the time taken by them for solving both the typical problem-solving questions.

**Winning teams:**

Position	Team name	Team members	Team member details
1	Coding decoded	1: Kistappagari Sanketh 2: Peechara Shiva Krishna	3rd Year, CSE- AI&ML, CBIT.
2	Trie	1: Teja Sai Chenna Malleshwar Rao	3rd Year, CSE, CBIT.

**Number of Participants:**

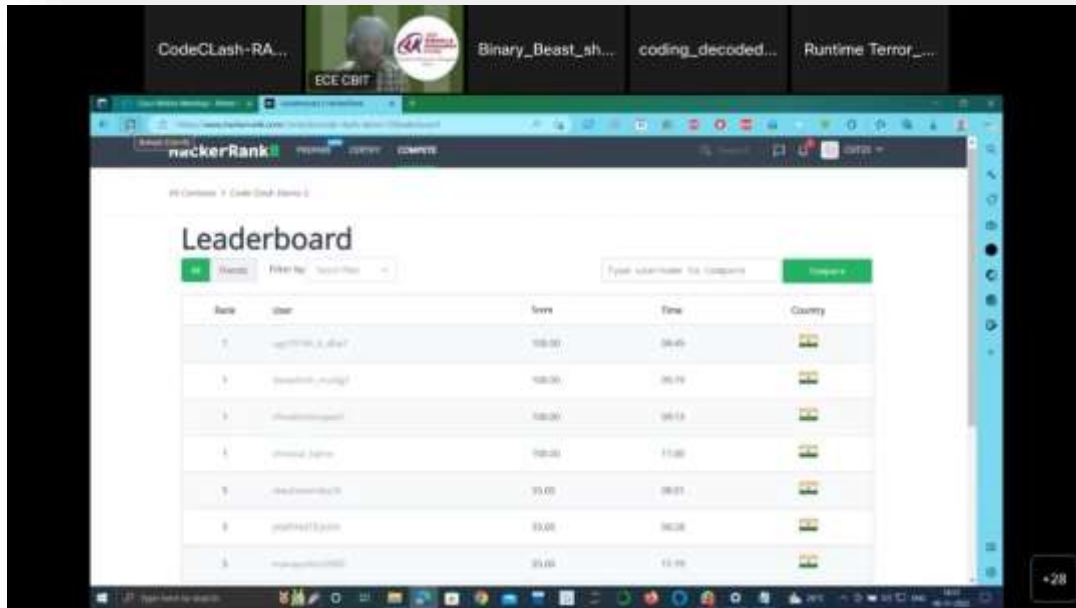
Over 54 members participated in the event and responded to all the activities

**Pictures of the event:**



**Fig 1: Participants in the meet**

**Fig 2: CODESLASH starting**



**Fig 3: Leaderboard in the middle of the competition**

**Feedback from the participants:**

The competition was very exciting, the concept is new and thrilling.



## ATTENDANCE SHEET

Display Name	Attendee Email	Attendance Duration
012-Nishitha	nishitha756@gmail.com	1 min
023 Naga Madhuri	madhurivanam23@gmail.com	5 mins
054 sree harshith vajinepalli	sreeharshithvajinepalli7@gmail.com	1 min
109 Suhas	suhaskatkureddy@gmail.com	11 mins
116_Moses	mosespadirolu007@gmail.com	1 min
405Found_ManishKanaparthi	andoraska@gmail.com	128 mins
405Found_SrinathChembolu	datapirate09@gmail.com	125 mins
Abhishek Reddy.B	abhishekreddy2407@gmail.com	5 mins
Akhil_Akhil	kamuniakhil97@gmail.com	72 mins
Amigos_Naga Madhuri	madhurivanam23@gmail.com	60 mins
Amigos_varsha	varshasura9@gmail.com	58 mins
BANKAI_Shashidhar	shashidhar2003@gmail.com	2 mins
BANKAI_Shashidhar	shashidhar2003@gmail.com	1 min
BANKAI_Shashidhar	shashidhar2003@gmail.com	8 mins
BANKAI_Teja	saitejapalegarthuli4@gmail.com	6 mins
BANKAI_Teja	saitejapalegarthuli4@gmail.com	6 mins
BANKAI_Teja	saitejapalegarthuli4@gmail.com	21 mins
BANKAI_Teja	saitejapalegarthuli4@gmail.com	1 min
Binary_Beast_shahbaz	shahbazjahan9@gmail.com	116 mins
BinaryBeast_Sowmika	alwalsowmika26@gmail.com	111 mins
BinaryBeasts_Nithin	nithinkonda142@gmail.com	124 mins
binarybeasts_Sreenesh	sreeneshreddy52@gmail.com	14 mins
binarybeasts_Sreenesh	sreeneshreddy52@gmail.com	3 mins
binarybeasts_Sreenesh	sreeneshreddy52@gmail.com	38 mins
BLANK_Aman Rachala	amanrachala@gmail.com	116 mins
blank_ameen	carbylearns@gmail.com	124 mins
bobbies burgers_srikar	srikarrao2021@gmail.com	137 mins
bobbies burgers_suchir	suchirreddy31@gmail.com	131 mins
Brogrammers_Chetan	chetanpandey5443@gmail.com	120 mins
Brogrammers_Tanish	ugs205101_cse.tanish@cbit.org.in	120 mins
Brogrammers_TanishRohil	ugs205101_cse.tanish@cbit.org.in	1 min
Callback Cats_Devashish	devashish_mudigonda@yahoo.com	126 mins
Callback cats_Uday kiran	ukreddymanda@gmail.com	5 mins
Callback Cats_Uday kiran	ukreddymanda@gmail.com	124 mins
CodeCLash-RAS Tech	chippagirisumanth@gmail.com	139 mins
CodeIT_PhilipG	godalaphilip946@gmai.com	64 mins
Coders_Yakshith	daggupatiyakshithnaidu@gmail.com	22 mins
coding_decoded_shiva Krishna	shivakrishnapeethara@gmail.com	129 mins
ECE CBIT	hod_ece@cbit.ac.in	144 mins
ERROR GEDIONS_Ganesh	ganeshnedunuri3339@gmail.com	103 mins
ERROR GEDIONS_Ganesh	ganeshnedunuri3339@gmail.com	2 mins
ERROR GEDIONS_Ganesh	ganeshnedunuri3339@gmail.com	21 mins
ERROR GEDIONS_PUNEETH	batchupuneeth2003@gmail.com	143 mins
Errors_Abhishek Ravinuthala	abhishekravinuthala2003@gmail.com	73 mins
ERRORS_Abhishek Reddy	abhishekreddy2407@gmail.com	1 min

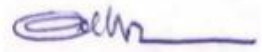
Errors_Abhishek Reddy	abhishekreddy2407@gmail.com	47 mins
Fast Fingers_vaishnavi	bompalyvaishnavi@gmail.com	38 mins
ganesh	ganeshnedunuri3339@gmail.com	1 min
hashers_019_Bhanu	bhanuprakashn4508@gmail.com	125 mins
Hashers_019_BharathChandra	bharathchandra2030@gmail.com	126 mins
Hashiras_harshith	sreeharshithvajinepalli7@gmail.com	10 mins
Hashiras_harshith	sreeharshithvajinepalli7@gmail.com	20 mins
Hashiras_harshith	sreeharshithvajinepalli7@gmail.com	76 mins
hustler_Avinash	avinash.challa2003@gmail.com	52 mins
Jai Balayya_Kiran	kirandeep102030@gmail.com	25 mins
Jai Balayya_Kiran	kirandeep102030@gmail.com	4 mins
Jai Balayya_Kiran Deep	kirandeep102030@gmail.com	2 mins
KN-CODERS	thumugantikarthik@gmail.com	1 min
Lucifer_Pranith	praneethprani7@gmail.com	22 mins
Lucifer_Pranith	praneethprani7@gmail.com	12 mins
Lucifer_Rakesh	rakeshkonne76@gmail.com	85 mins
MARS_meghana	meghana.neethu@gmail.com	61 mins
narendhar reddy	gujjulanarendharreddy@gmail.com	34 mins
Nikhil	marojunikhil2002@gmail.com	1 min
Pallavi Arukonda	pallavi.arukonda@gmail.com	3 mins
Pallavi_Pallavi Arukonda	pallavi.arukonda@gmail.com	54 mins
Pivot_Akash	akashbathula19@gmail.com	116 mins
Pivot_Arunanjan	arunanjanbandari@gmail.com	59 mins
pythonPirates_karthikeyaBoorla	karthikeyaboorla2004@gmail.com	8 mins
Runtime Terror_Vishnu Sathwik	vishnusathwik03@gmail.com	128 mins
runtimerror_aadarsh	aadarshpokala02@gmail.com	17 mins
RunTimeTerrors_Abhinav	abhinav.grrm@gmail.com	27 mins
RunTimeTerrors_Abhinav	abhinav.grrm@gmail.com	3 mins
runtimerrors_hari haran	hariharanjuluri@gmail.com	32 mins
Shiva -joint secretaryRAS	vangdaleshiva@gmail.com	114 mins
shivasai	b.shivasai209@gmail.com	114 mins
Siddharth	itssiddharthyadav01@gmail.com	3 mins
Sky_Akash-Reddy	akashreddyengineer@gmail.com	41 mins
smartcoders_shivasai	b.shivasai209@gmail.com	12 mins
smartcoders_shivasai	b.shivasai209@gmail.com	109 mins
Sneha Sanganal	sanganal1303@gmail.com	2 mins
Sneha-Sneha Sanganal	sanganal1303@gmail.com	3 mins
Sneha_Sneha Sanganal	sanganal1303@gmail.com	73 mins
Sneha_Sneha Sanganal	sanganal1303@gmail.com	41 mins
So called Engineer_B.Akshith Reddy	b.akshithreddy130804@gmail.com	67 mins
SREENESH	sreeneshreddy52@gmail.com	4 mins
srinivas	2srinivaas@gmail.com	21 mins
srinivas	2srinivaas@gmail.com	10 mins
srinivas	2srinivaas@gmail.com	23 mins
srinivas	2srinivaas@gmail.com	25 mins
suchir reddy	suchirreddy31@gmail.com	1 min
team 45_akshay	mushariakshay@gmail.com	37 mins
Team Alien_Sai Teja	veldojsaiteja@gmail.com	20 mins
Team Alien_Sai Teja	veldojsaiteja@gmail.com	19 mins
Team Aliens_Nikhil	marojunikhil2002@gmail.com	65 mins

Team Aliens_Nikhil	marojunikhil2002@gmail.com	42 mins
Team Jarvis	itssiddharthyadav01@gmail.com	60 mins
TEAMGOAT_SONU	mohammedsonu05@gmail.com	109 mins
Tech warriors_jagadheesh	maheshwaramjagadheesh@gmail.com	14 mins
techwarriors_maheshwaramjaga1	maheshwaramjagadheesh@gmail.com	57 mins
techwarriors_somasri	lakshmisomasri1234@gmail.com	60 mins
thunderbolt_abdul	shaikabdulkhadercbit@gmail.com	11 mins
thunderbolt_abdul khader	shaikabdulkhadercbit@outlook.com	61 mins
Thunderbolt_Noor	ugs20a111_csm.noor@cbit.org.in	19 mins
Trie_Teja sai chenna malleswar rao	tejasai1804@gmail.com	131 mins
Vikranth	jonnnavikranth@gmail.com	2 mins
wejjd	hehe@gmail.com	3 mins
white hats_sahithya shelly	sahithyashellymalladhi@gmail.com	49 mins



Course Coordinator

(G. MALLIKHARJUNA RAO)



HOD, ECE

(Dr. D. Krishna Reddy)



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

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



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EDUCATION

**44**  
years



A Webinar on

# Battery Monitoring System for Electric Scooter

**Prof. MOHD. HELMY ABD WAHAB**

Principle research Fellow,  
Advanced Telecommunication Research Center,  
Faculty of EE Engineering  
University Tun Hussein Onn Malaysia



CFD Lab, Ground Floor  
- Mechanical Dept. CBIT



26th October 2022



2 pm - 3.30 pm (IST)

Contact:

Vaeshnavi - 9618381515

Srinivas - 7330857262

Registration is free. Link in bio!



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

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



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INNOVATION AND  
EDUCATION

**44**  
years

## **IEEE CBIT Student Branch (STB31231)**

**IEEE-Robotics and Automation Society – Student Branch Chapter**

### **WEBINAR NOTICE**

Guest Speaker	: Prof. Mohd. Helmy Abd Wahab
Venue	: CFD lab Ground floor, Mechanical department. Opposite - GeneratorRoom.
Meeting link	: <a href="https://cbithyd.webex.com/cbithyd/j.php?MTID=m92c427fa09a896ec9b853fb29c96e744">https://cbithyd.webex.com/cbithyd/j.php?MTID=m92c427fa09a896ec9b853fb29c96e744</a>
Date	: 26 <sup>th</sup> October 2022
Time	: 2:00 pm - 3:30 pm IST

#### **Abstract / About the Programme**

The IEEE Robotics and Automation Society (RAS) Student Chapter of Chaitanya Bharathi Institute of Technology (CBIT) is conducting a seminar on "Battery Monitoring System for Electric Scooters" by our guest speaker, Prof. Mohd Helmy Abed Wahab. Participants will learn about how BMS operates on electric scooters and why it is essential for vehicles these days. This session assists many students with their upcoming project ideas and ideas for choosing a path towards automation and technology.

#### **About the Speaker**

Prof. Mohd. Helmy Abd Wahab is a senior lecturer and a former Head of Multimedia Engineering Lab and Intelligent System Lab at the Department of Computer Engineering, Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia (UTHM) in 2014 and 2009. He is currently a Principle Research Fellow at the Advanced Telecommunication Research Center, Faculty of Electrical and Electronic Engineering, UTHM (2021-2025) and a Visiting Research Fellow at the Universiti Malaysia Perlis (UNIMaP) Center of Excellence on Advanced Computing (2021-2022). In addition, he was a visiting research fellow at the Center of Excellence on Geopolymer and Green Technology under the cluster Green ICT, Unimap from 2018–2020. He received a Bachelor of Information Technology with Honours from Universiti Utara Malaysia and a Master of Science (Intelligent System) from the same university in 2002 and 2004 respectively. He will give insight on the Battery Monitoring System for Electric Scooters. As a matter of fact, his insights would be beneficial to many students and serve as a significant takeaway.



**Faculty Coordinator:** Mr. G. Mallikarjuna Rao, Asst. Professor, Dept of ECE, Dr. Rajanikanth Aluvala, AssociateProfessor, Dept of IT

**Student Coordinator:** Vaeshnavi Vella, Srinivas Reddy

**Student Organizers:** Jeevan Kumar, V. Shiva, Sri Chakra Raj, C. Sumanth, Srijinesh Alanka

**ALL ARE WELCOME**



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

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



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## A BRIEF REPORT

### A WEBINAR ON BATTERY MONITORING SYSTEMS FOR ELECTRIC SCOOTERS

A webinar on “Battery Monitoring systems for Electric Scooters”, organized by the Robotics and Automation Society Student Branch Chapter - CBIT, under IEEE, in association with the Departments of Electronics and Communication Engineering and Information Technology, **Chaitanya Bharathi Institute of Technology (A)**, Hyderabad, was held on **26th October 2022 from 2.00 pm to 3.30 pm** in online mode. The webinar was an insightful session for the students working on the main projects related to Electric Vehicles.

**Main Speaker: Prof. Mohd Helmy Abd Wahab**, Principal Research Fellow - Advanced Telecommunication Research Center, Faculty of EE Engineering at University of Tun Hussein Onn, Malaysia, started the lecture by briefly talking about his work, that included “Smart Recycle Bin”, a product development grant, “My Sign”, a wireless wearable sign language translator device, that received a Tier 1 internal grant (2018-2019) FRGS-Racer Grant, Portable remote control home electrical appliances control system using mobile apps, Battery Management System using IoT (A university-industry project), etc.

The lecture continued with a brief introduction to what an electric vehicle is, and how they rose to popularity, why many vehicle manufacturers are looking for alternatives of energy sources other than gas, i.e., use of electrical energy sources may improve the environment. He further addressed the main problem, “limitation of the application of Electric Vehicle is the safety of existing battery technology. Existing battery monitoring systems are concerned only with battery conditioning and alarm detection systems manually inside the vehicle. This is countered by using GSM extension of Internet of Things (IoT) to give relays to the users on the battery status rather than just broadband. This could be used as a maintenance procedure as well.

The system working was a flow diagram that gave a bigger picture about the usage of Arduino Uno, Voltage sensors, EV battery, and GSM shield and how they are interconnected. The professor talked about the hardware design and stated that it is dependent on voltage measurement results based on the battery testing. He added on to the lecture by giving an insight GPS Module, which is used for giving the vehicle the location coordinates and was done in the coordinates of the UTHM, Malaysia, and detection degraded battery by pictorial demonstration of IoT based Battery Management and Monitoring System.

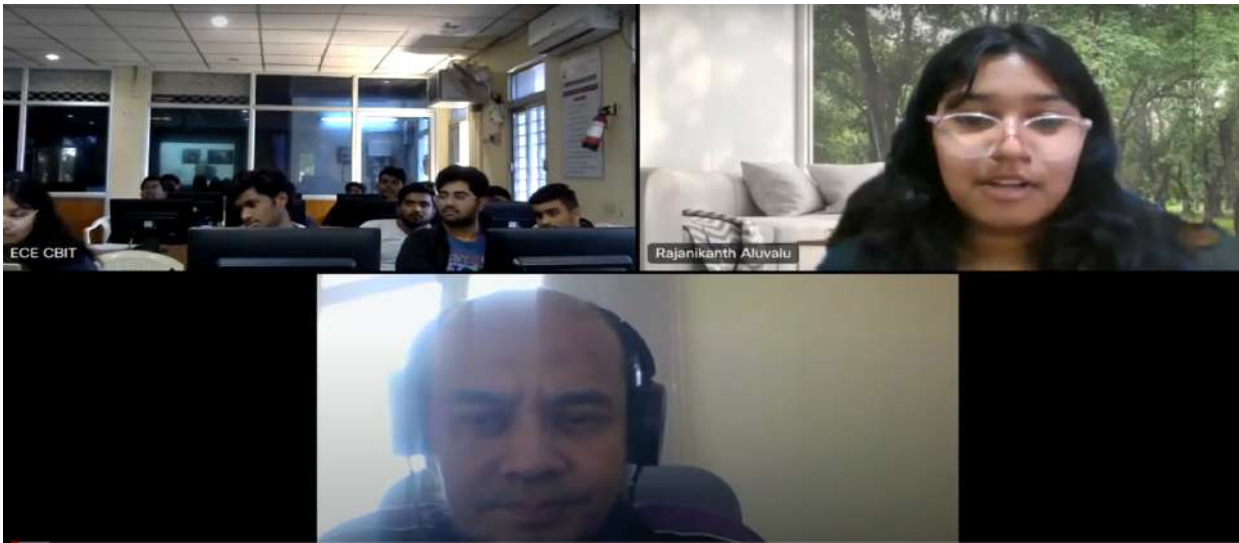
The professor concluded the lecture by throwing a light on the importance of IoT to ensure battery performance monitoring online and via GPS. He is also grateful that the UTHM Research Development center has funded this ongoing project with U530 Grant.



### **Number of Participants :**

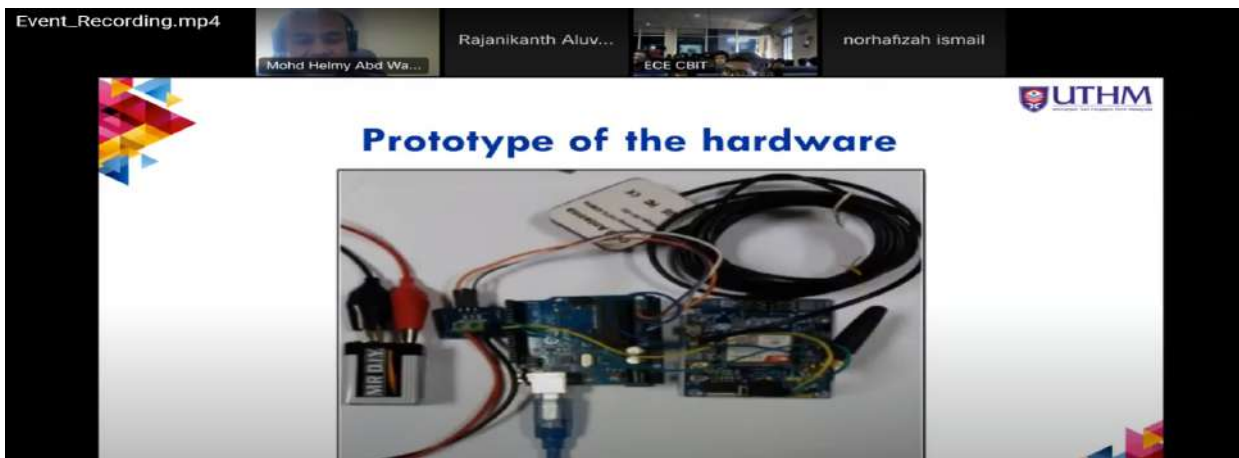
Over 30 members participated in the event and made the session very interactive with their doubts.

### **Pictures of the Event :**



**Fig 1 :** Introducing the Speaker of the Session

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**Fig 2 :** Speaker explaining about Prototype of Hardware of Battery Monitoring System

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### **Feedback from the Participants :**

The Participants felt the Session was so informative and gained many insights about the Battery Monitoring System.





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INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education, Government of India)



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



43  
years

COMMITTED TO  
RESEARCH  
INNOVATION AND  
EDUCATION

# WELCOMES

## WORLD ENTREPRENEURS' DAY

Organized by : IIC – CBIT in association with EDC – CBIT

21st August 2022 to 24th August 2022

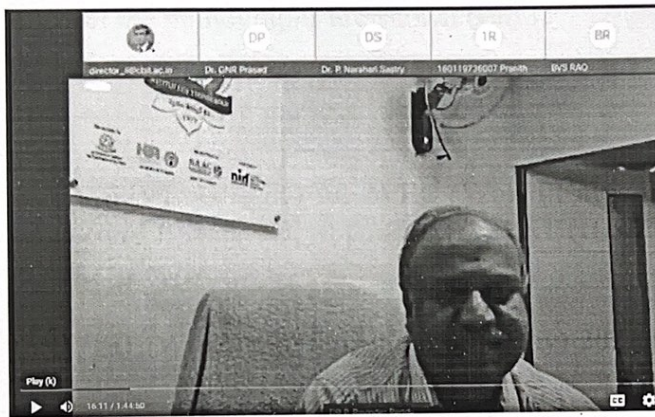
PROGRAM SCHEDULE

Date	Time	Title	Faculty coordinators	Resource person(s)
21.08.2022 (Online)	11.15 AM to 11.30 AM	Inauguration and Address by Principal, CBIT	Dr. U.K. Choudhury Dr. P. Narahari Sastry	Dr. P. Ravinder Reddy, Principal, CBIT
21.08.2022 (Online)	11.30 AM to 12.30 PM	Challenges faced by Entrepreneurs	Dr. B.V.S.Rao Mrs. V. Sandhya	Prof. P. Narahari Sastry
22.08.2022	10.20 AM to 11.20 AM	Innovation in the age of Disruption	Dr. B.V.S.Rao Mrs. V. Sandhya	Dr. U.K. Choudhury
22.08.2022	01.30 PM to 02.30 PM	Poster competitions on Entrepreneurship in the campus	Dr. G.N.R. Prasad Mrs. V. Sandhya	Dr. N. V. Srinivasulu Dr. G.N.R. Prasad, Mrs. V. Sandhya
23.08.2022	12.15 PM to 01.15 PM	Entrepreneurship and Project Management	Dr. V. Aruna Mr. Tulasi Ram	Dr. E. Jalaja
23.08.2022	11.15 AM to 12.15 PM	Role of Venture Capitalists in Entrepreneurship Development	Dr. G. N. R. Prasad	Prof. N.V. Srinivasulu
23.08.2022	01.00 PM to 02.00 PM	Developing an effective business plan using lean Canvas	Dr. P. Narahari Sastry Mrs. M. Sangeetha	Dr. A. Rajanikanth
23.08.2022	01.30 PM to 02:30 PM	Entrepreneur in current scenario - opportunities and challenges	Dr. B.V.S.Rao Mrs. Ipsitha Mohanty	Mr. Prasad Kandimalla MD & CEO, LAZULINE BIOTECH PVT LTD / Mr. Kishore Vijju, Icube Technology
23.08.2022	02:30 PM to 03:30 PM	Entrepreneur outlook in organisations possibilities and constraints	Dr. B.V.S.Rao Mrs. Ipsitha Mohant	Mr. Navneeth Kumar, Executive Head, Hexagon Capability Centre
24.08.2022	01.15 PM to 02:30 PM	Panel Discussion with Student/Faculty/Staff Entrepreneurs on Entrepreneurship	Dr. P. Narahari Sastry Mrs. M. Sangeetha	Dr. N. V. Srinivasulu, Dr. E. Jalaja, Dr. B.V.S. Rao, Mr. Chandra Kanth, Mrs. Ipsitha Mohanty, Dr. Hafeez Basha
21.08.2022 to 24.08.2022	7.00 PM to 8.00 PM	Create a short video on life of campus Entrepreneurs	Dr. G.N.R. Prasad Mr. Tulasi Ram	Dr. G.N.R. Prasad



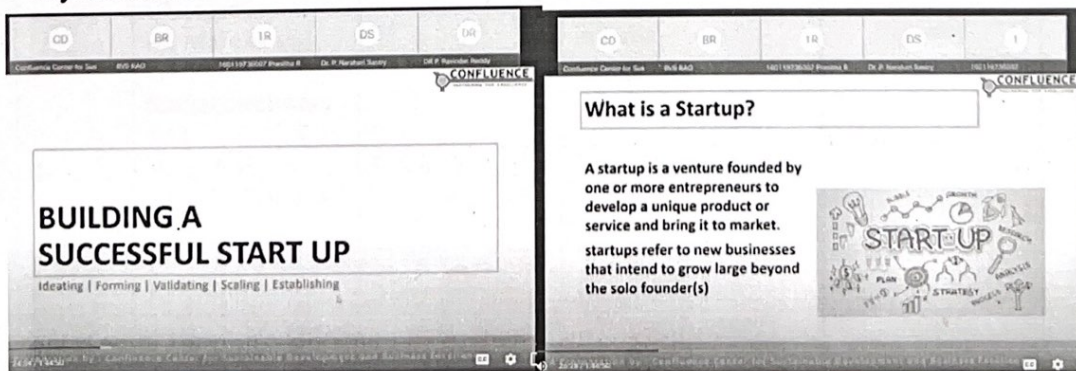
**BRIEF REPORT OF WED (World Entrepreneurship Day) 2022  
ORGANISED IN CBIT FROM 21<sup>ST</sup> AUGUST TO 24<sup>TH</sup> AUGUST 2022**

The **WED (World Entrepreneurship Day) 2022** was organized in CBIT from **21<sup>st</sup> August to 24<sup>th</sup> August**. This event was opened and the Inaugural address was given by our Principal Prof. P. Ravinder Reddy Garu on 21<sup>st</sup> August 2022(Sunday). This was in **ONLINE** mode.



Principal, CBIT Spoke about Entrepreneurship and Innovation and encouraged students to get involved in such activities. He also told that the importance is to be understood by the young generation. Entrepreneurship subject is being offered by CBIT for the benefit of the students. He advised the students to attend the program and some of them can transform themselves to become successful Entrepreneurs and have their own Start-up.

Mr. BVS Rao spoke about Entrepreneurship and Invited Sri CENkatesh Yeramalla, CEO Confluence to address the students on this Entrepreneurship day. Alumni.



During the event, Dr. U.K. Ghoshal addressed and spoke about the importance of entrepreneurship, innovation and innovation. In the afternoon session Dr. P. Nandan Sanyal, Professor of IITM gave a presentation on OMMI model titled "Challenges faced by Entrepreneurs". More than 50 participants participated.

In the following day on the 27<sup>th</sup> of August Dr. U.K. Ghoshal presented a virtual "Innovation in the age of disruption" in online mode.

Some of the photographs are shown below:



Further on the same day, there was a poster competition organized on Entrepreneurship and was participated by students. There were 5 prizes awarded in the competition as follows:

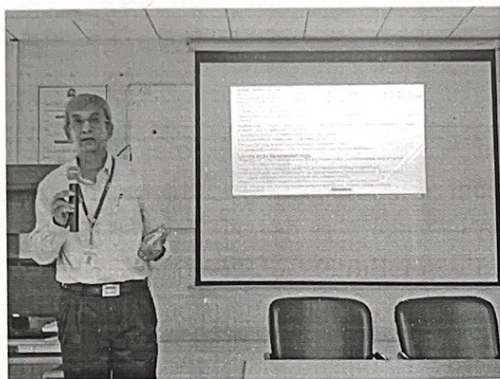
S.No.	Name of the winner	Branch / Semester	Title of the presentation	Prize
01	G. Ghoshal Chaitan M. Ghoshal G. H. Ghoshal Ran	Production VII	Young Entrepreneurs Initiative	-
02	V. Ghoshal V. Ghoshal V. Ghoshal	MBA III	Startups opportunity of young	-
03	L. Ghoshal P. Ghoshal	Management VII	Globalization	1 <sup>st</sup>
04	D. Ghoshal	MBA III	Social	2 <sup>nd</sup>



Latter Director (I&I) Dr. U. K. Choudhury addressed and spoke about the importance of Entrepreneurship, incubation and innovation. In the afternoon session Dr. P. Narahari Sastry, Professor of ECE gave a presentation in ONLINE mode titled “Challenges faced by Entrepreneurs”. More than 132 participants participated.

In the following day on the 22<sup>nd</sup> of August, Dr. U. K. Choudhury presented a talk titled “Innovation in the age of disruption” in Offline mode.

Some of the photographs are shown below:



Further on the same day, there was a poster competition organized on **Entrepreneurship** and was participated by students. There were 3 prizes awarded and the result is shown below:

S. No.	Name of the student	Branch / Semester	Title of the presentation	Prize
1	G. CHoodamani Chandana M. Mahesh G. Ramakoteshwara Rao	Production / VII	Young Entrepreneurs in India	--
2	V. Sathwik Venkat Chandan V Sanjna	MBA / II	Start-ups raising standard of living	--
3	Lakshmi Prasanna	Mechanical / VII	Cloud Kitchen	1 <sup>st</sup>
4	D Sai Rohini	MCA / II	Social	Special Prize



			Entrepreneurship	
5	D Sai Kiran	MCA / II	Waste Management	--
6	T Ramya Priya	MCA/II	Digital Marketing	3 <sup>rd</sup> Prize
7	Ketan Kakali Maanvi Reddy	Mechanical / 4 <sup>th</sup> year	Entrepreneurship	2 <sup>nd</sup> prize

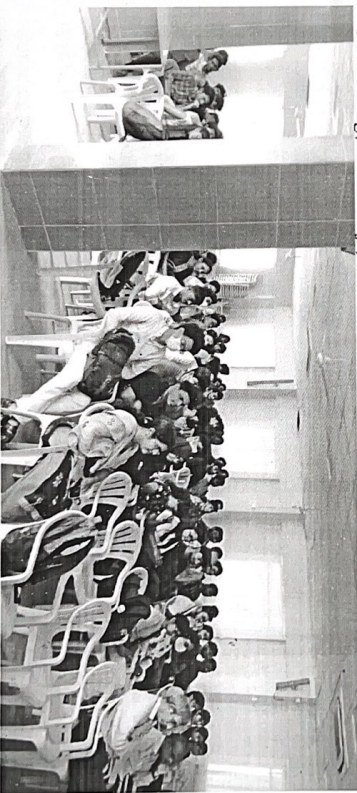
Some of the photographs are shown below:



The various judges were Dr. P. Narahari Sastry, Professor of ECE, Dr. N. V. Srinivasulu, Professor of Mechanical Engineering and Dr. M. Ramana Reddy, Asst. Professor of ECE Department. Dr. U. K. Choudhuri, Director (i&i) was also present during this event. The organizers of this event were Dr. G.N.R. Prasad, Asst. Professor of MCA department and Sri Tulasi ram, Asst. Professor of MBA department. The above figure shows the participants, organizers, and also Judges of the event.

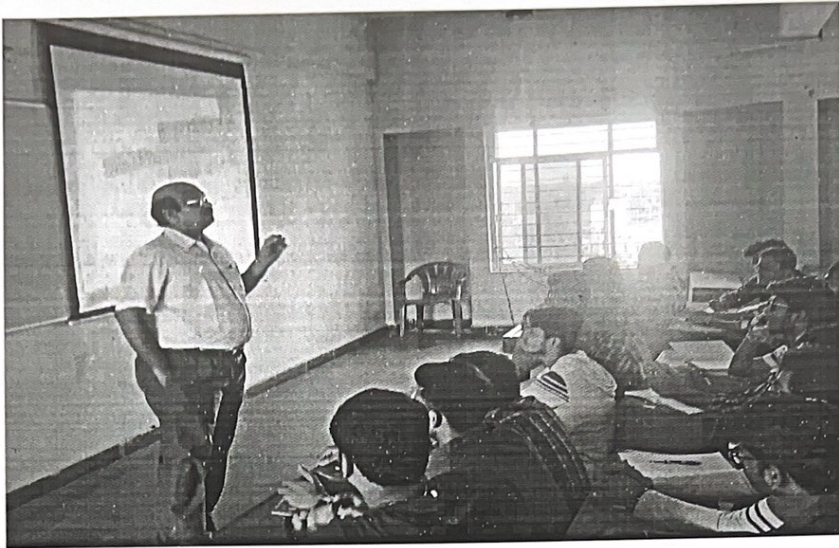


On 23<sup>rd</sup> August Dr. Jalaja, Associate Professor and Head of the Department, delivered a



On the same day Dr. N. V. Srinivasulu, Professor of Mechanical Engineering delivered a lecture titled "Role of Venture Capitalist in Entrepreneurship development".  
Some of the photographs are as follows





On the same day **Dr. A. Rajanikanth**, Associate Professor, of the Computer Science Department delivered a lecture titled **“Developing a business plan using lean Canvas”**

Some of the images related to this talk are as follows:





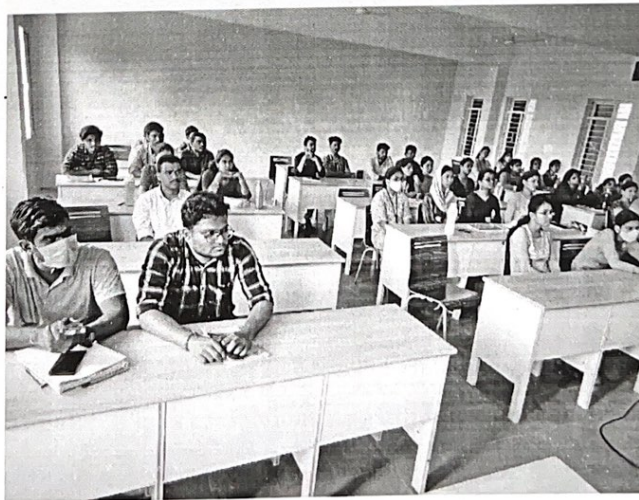
On the same day, there was a session titled **“Entrepreneur in current scenario and opportunities – Opportunities and Challenges”** delivered by Mr. Prasad Kandimalla, MD and CEO of LAZULINE BIOTECH PVT. LTD.

One of the pictures are shown below:



Mr. Navneeth Kumar, Executive head, Hexagon Capability Center gave a lecture on **“Entrepreneur outlook in organizations – possibilities and constraints”**.

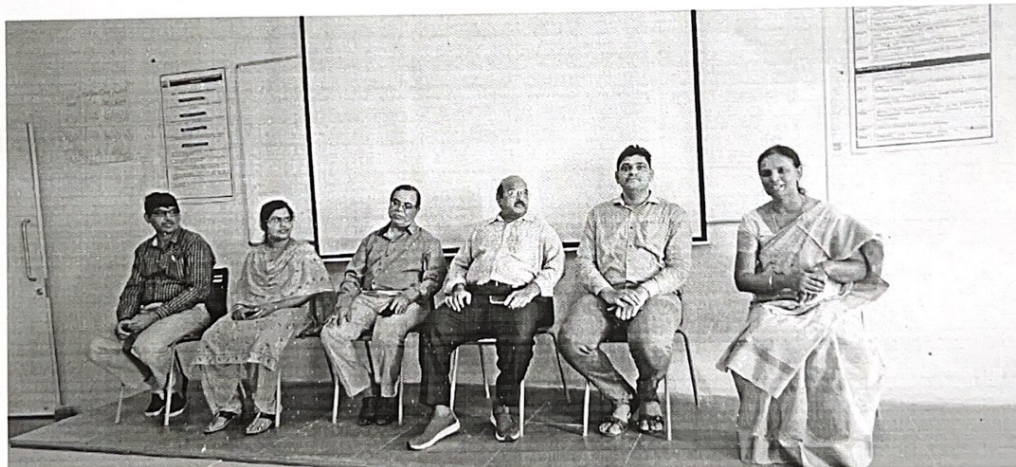
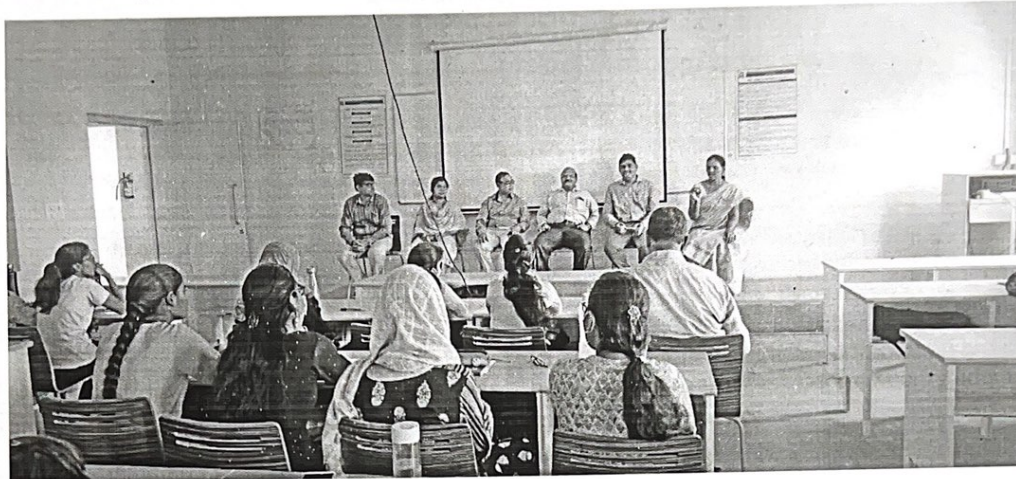
One of the pictures is shown below for the program:





On the last day 24<sup>th</sup> August 2022, there was a panel discussion organized between students along with Faculty on the topic “**Entrepreneurship and its influence**”.

Some of the pictures are shown below:



WED celebrations.

21/8/2022

Research and Entrepreneurship Hub  
CBIT, Hyderabad

Sub: Note for Approval to celebrate World Entrepreneurship day as per MIC guidelines.

World Entrepreneurs' Day (WED) is celebrated on 21<sup>st</sup> August to create awareness for entrepreneurship, innovation and leadership throughout the world. WED is the day of founders, managers, producers, contractors, industrialists, innovators, administrators, designers and producers. Ministry of Education Innovation cell (MIC) has announced the next MIC Driven Activity for Quarter 4 for celebrating World Entrepreneurship Day, i.e. on 21<sup>st</sup> August 2021. MIC has advised all IICs for the institutions to celebrate WED to foster the culture of innovation across all educational institutions from ideas generation to pre-incubation, incubation and graduating from the incubator as successful start-ups.

As advised by MIC, all IIC institutions have to organize happenings around and within their campus between 21<sup>st</sup> August 2021 to 24<sup>th</sup> August 2021 to promote World entrepreneurs Day. 21<sup>st</sup> being Sunday, online programs will be arranged.

The IIC, CBIT in association with EDC, CBIT will be organising following on-line events between 21<sup>st</sup> to 24<sup>th</sup> August, 21.

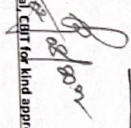
1. Panel Discussion with Student/Faculty/Staff Entrepreneurs
2. Invited talk with Start-up Founder/Co-Founder
3. Organize debate/ poster making competitions on Entrepreneurship.
4. Write the cases of Successful Start-up Founders
5. Hindrance faced by Entrepreneurs
6. Create a short video on life of campus Entrepreneurs

The following Expenditure is estimated for the WED Celebration:

1. Poster and one standee in front of CBIT Main Building. Rs. 1800
2. Certificate Printing Rs. 2000
3. Mementoes to 3 External Speakers Rs 1000 Each (Alumni) Total Rs. 3000.
4. Tea, Water Bottles, Misc. Expenses Rs 1000.
5. No honorarium for Internal Speakers.

The Programs will be coordinated by Prof. Narahai Satry, ECE and Prof. Prabhakar, Reddy, MED Deptt. and Dr Rajnikant, Asst. Prof. IT. The Proposed program Details is attached in Annexure-1.

It is requested that Rs. 8,800 may please sanctioned for conducting the event.

  
U. K. Choudhury  
21/8/2022  
(Dr. U.K. Choudhury)  
Prof. & Director(I&I)

Principal, CBIT for kind approval





INSTITUTIONS' INNOVATION COUNCIL  
Department of Education, Government of Andhra Pradesh



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (W)  
WELCOMES  
43rd WED 09/24

# WORLD ENTREPRENEURS' DAY

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21st August 2022 to 24th August 2022  
PROGRAM SCHEDULE

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23.08.2022	02.30 PM to 03.30 PM	Entrepreneur outlook in organisations	Dr. B.V.S. Rao	Mr. Naveen Kumar, Executive Head, Hologram
24.08.2022	01.15 PM to 02.30 PM	Possible and constraints with Faculty/Staff on Entrepreneurship	Dr. P. Harihar Reddy	Dr. N. V. Subrahmanya Reddy, Dr. E. Jalaja, Dr. B.V.S. Rao, Mr. Chanderu Sanku, Mrs. Iphitha Mohanay, Dr. Hikeret Babha
24.08.2022	7.00 PM to 8.00 PM	Entrepreneur video on life of campus	Dr. G.N.R. Prasad	Dr. G.N.R. Prasad

## సిబిఐటి కళాశాలలో ఘనంగా ప్రారంభమైన

# ప్రపంచ పాలిట్రామికవేత్తల దినోత్సవం

శంషాబాద్, అనుదిన వార్తా: రాజేంద్రనగర్ నియోజకవర్గం గండిపేట మండలం సిబిఐటి కళాశాలలో ఆగస్టు 21 నుండి ఆగస్టు 24వ తేదీ వరకు ప్రపంచ వరిశ్రమ యొక్క వేత్తల దినోత్సవం నిర్వహించనున్నారు. ఆదివారం రోజు ఆన్లైన్లో సిబిఐటి కళాశాల ప్రాఫెసర్ రవీందర్ రెడ్డి తన ప్రసంగంతో ప్రపంచ పాలిట్రామికవేత్తల దినోత్సవాల్ని ప్రారంభించారు. అనంతరం ఆయన మాట్లాడుతూ వింట్రప్రెన్యూర్షివ్ యొక్క ప్రాముఖ్యత అని మానవ్యూరి నమయంలో పాలిట్రామికవేత్తల పాత్ర గురించి చెప్పారు. మన దేశం లో వివిధ రకాల చిన్న ఉద్యోగాలను సృష్టించడానికి స్టార్టప్ పర్యావరణ వ్యవస్థ వేగంగా అభివృద్ధి చెందుతోందని తెలిపారు. ప్రోగ్రాం మెయ్జార్ గురించి ప్రాఫెసర్ ఉమాకాంత చౌదరి తెలిపారు. ఈ ప్రోగ్రామ్ తదుపరి శాలుగు రోజుల పాటు ఆన్లైన్లో మ్యాట్లో నిర్వహించబడుతుంది. వరిశ్రమ నుంచి వివిధ అనుభవముగల వ్యక్తులు వివిధ ప్రసంగాలు ప్లోవర్ ప్రదర్శన, పోటీలు నిర్వహించడం జరుగుతుందని చెప్పారు.





సవతిలంగాలు

### శాస్త్రవేత్తలుగా రాణించాలి

● సీజిఐఐఐ కాలేజీ ప్రొఫెసర్ల యేకీకరణ



### సవతిలంగాలు-గింటిపేట్

వరదేశ్ లోని సవతిలంగాలు శాస్త్రవేత్తలుగా రాణించే ప్రాధాన్యతను కలిగి ఉన్న యేకీకరణ కార్యక్రమం గురించి సీజిఐఐఐ కాలేజీలో ఈ నెల 21 నుంచి 24 వరకు ప్రాధికారమును కలిగి ఉన్న వేదవేత్తలు నిర్వహించారు. ఈ సందర్భంగా మాట్లాడుతూ... విద్యార్థులు ఎంటర్ ప్రెనేన్షియల్ రాణించాలి. విద్యార్థులకు యేకీకరణ ప్రదానం చేశారు. కార్యక్రమం



GUEST LECTURE BY KISHORE ON the occasion of World Entrepreneurship Day celebrations on  
23/08/2022





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



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**43**  
years

A Report on  
**ENTREPRENEURIAL MIND SET FOR PROFESSIONAL SUCCESS**  
On 10-10-2022

Organised by EDC,IIC-CBIT

Poster

2022-  
23

The poster is a dark grey rectangle with white and light grey text. At the top left is the Chaitanya Bharathi Institute of Technology logo and name. To the right is the '43 years' anniversary logo. The main title 'ENTREPRENEURIAL MIND SET FOR PROFESSIONAL SUCCESS' is in large, bold, white letters. Below the title, the date and time '10-10-2022 from 11.00AM' and the venue 'Venue: N-Block Seminar Hall.' are listed. The speaker information is on the right: 'Speaker for the session Jyotsna Cheruvu, Director - CMAC, Hyderabad, President - Confederation of Women Entrepreneurs India - Telangana Chapter'. At the bottom left, it says 'Organized by EDC,IIC- CBIT' and features logos for 'Entrepreneur rising Ideas' and 'INSTITUTION'S INNOVATION COUNCIL'. At the bottom center, it lists 'Co-ordinators: Dr P.Prabhakar Reddy, Ms V.Sandhya'.

Fig: Poster of ENTREPRENEURIAL MIND SET FOR PROFESSIONAL SUCCESS On 10-10-2022





Circular



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)

No. 384/CBIT/AEC/2022

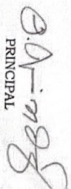
Dr. 08-10-2022

CIRCULAR

Chaitanya Teja-Entrepreneurship Development Cell (EDC), CBIT is organizing a speaker session on "Entrepreneurship and Innovation as Career Opportunity" on 10-10-2022 from 11.00AM onwards at N-Block Seminar Hall.

The speaker for the session is Mrs. Jyotsna Chertuva, Director - CMAC, Hyderabad, President - Confederation of Women Entrepreneurs (COWE) India - Telangana Chapter, Alumni of Civil Engineering department, CBIT.

All the interested students and faculty can attend the session. For further information students may contact Dr. P. Prabhakar Reddy, Professor, MED, (985468253) and Ms. V.Sandhya, Assistant Professor, MED (9701540189).

  
PRINCIPAL

To

All Heads of the Departments / Sections, for circulation among all the concerned students under their control

C.C to all the Directors, Joint Directors, Librarian, for information WEC for uploading on the Institute's website

Chaitanya Bharathi Institute of Technology (A)  
Chaitanya Bharathi (PO), Kothavalasa (O), Chevuru (M)  
Ranga Reddy District, Hyderabad - 500 075, Telangana, India  
☎ 040-24193270, 791 80  
✉ principal@cbit.ac.in | www.cbit.ac.in



Fig : Circular of ENTREPRENEURIAL MIND SET FOR PROFESSIONAL SUCCESS On 10-10-2022



## Brief Profile of the Speaker

**Jyotsna Cheruvu : Founder Director- CMIAC India Pvt Ltd  
President , COWE –Telangana**

A Civil Engineering graduate, MBA in HR and a Behavioural Trainer , Jyotsna has more than 2 decades of experience as an Entrepreneur .

Her company , CMIAC India is into manufacturing of vertical material handling construction equipment used for carrying men and material for high rise constructions like construction lifts, hoists etc with presence Pan India and Middle east.

CMIAC is one of its kind manufacturing unit in entire Telangana under "MAKE IN INDIA" promotion.

Serving more than 300+ top class Infra and manufacturing companies and working with global partners, she had an experiential learning of what it takes to build successful organizations .

She also works closely with China Building research Academy , Beijing in bringing upgraded technology to meet the material handling needs of Indian Construction Industry.

Jyotsna is also associated with Confederation of Women entrepreneurs for last decade holding various management positions.

She is very passionate about promoting entrepreneurship among women and Youth , and is initiator of conducting various workshops and training programs for Entrepreneurship development.

As a guest speaker she interacts with academic institutions in motivating students and also interact with rural women to develop entrepreneur skills as a part of Nation Building activity.

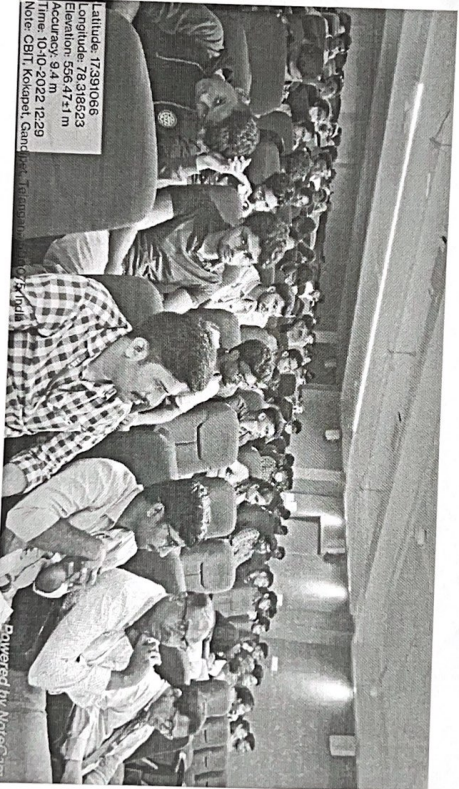
She is awarded the Best Entrepreneur by COWE (Confederation of Women entrepreneurs) for the years 2014 and 2015. And recipient of prestigious VISWA KARMA award for the year 2016

She is presently on advisory board of Construction Infrastructure Development Council a NITI ayog wing.  
Photos



Latitude: 17.391056  
Longitude: 78.318501  
Elevation: 556.4741 m  
Time: 10/02/2022 12:32  
Note: CBIT, Kolkattel, Gand

Fig: Speaker Jyothsna during the session



Latitude: 17.391056  
Longitude: 78.318523  
Elevation: 556.4741 m  
Time: 10/02/2022 12:32  
Note: CBIT, Kolkattel, Gand

Fig: Participants during the event



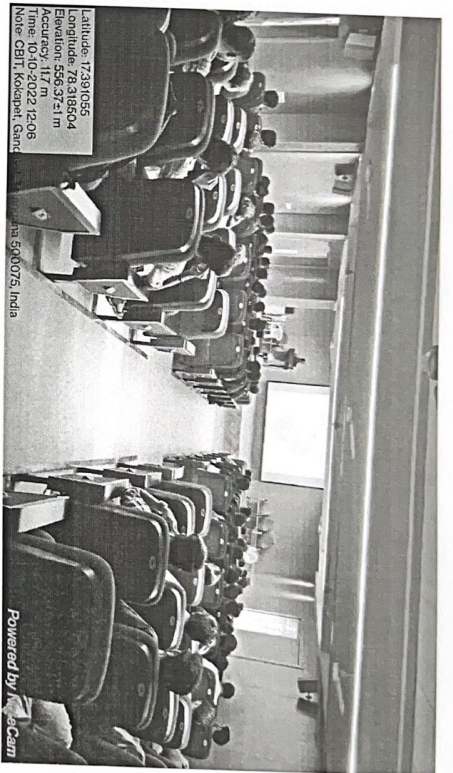


Fig: Participants during the event



Fig: Participants during the event



Fig: Participants during the event



Fig: Participants and speaker during the event





Fig: Speaker during the event



Fig: Participants during the event

**Objective:**

1. Develop and strengthen the entrepreneurial spirit among students
2. To identify the role of innovation in the current scenario
3. Know the pros and cons of being an entrepreneur.

**Learnings:**

1. Increase of awareness and how to practice the skills and disciplines necessary to increase confidence
2. Develop entrepreneurial and innovative mind set
3. To respond positively and effectively to problems in unfamiliar contexts












No. of Students attended - 94

No. of faculty attended - 10

#####



Entrepreneurship Development Cell, CBIT  
 "Entrepreneurship and Innovation as Career Opportunity"  
 10-10-2022 at N-Block Seminar Hall.

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12.					
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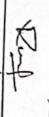
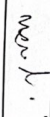
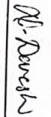
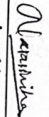



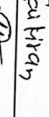
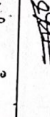
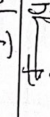
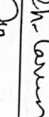
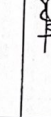


**Entrepreneurship Development Cell, CBIT**  
**"Entrepreneurship and Innovation as Career Opportunity"**  
 10-10-2022 at N-Block Seminar Hall.

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7.	16012073612	Subba			
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20.	1601207386107	Sumanth Reddy		sumanthreddy@gmail.com	85886664737







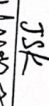
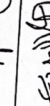




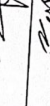



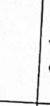
**Entrepreneurship Development Cell, CBIT**  
**"Entrepreneurship and Innovation as Career Opportunity"**

10-10-2022 at N-Block Seminar Hall.

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4.	160120734072	Rachana		rachana.rachana@gmail.com	7670819889
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14.	160119736017	Ch. Tarun		tarun.ch@gmail.com	9815711973
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Entrepreneurship Development Cell, CBIT  
 "Entrepreneurship and Innovation as Career Opportunity"  
 10-10-2022 at N-Block Seminar Hall.

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3.	160120732018	Srinivasar.		srinivasar@gmail.com	9949794341
4.	160120732029	K. Bharadwaj		gmail.com	8249204523
5.	160120732030	T. Chandravelu		Pandukrupa@gmail.com	9392507899
6.	16011973351	Y. Lakshmi			
7.	160119733172	J. Saketh			
8.	160120734059	A. Vignesh			
9.	160120734023	Andreas			
10.	160120734059	Radhika			
11.	160120734012	Geethika			
12.	160120734021	Rajeshwar Reddy			
13.	160120734003	Ashwini			7702997615
14.	160120734022	A. Ashray			
15.	160120734038	N. Nishu			7287078216
16.	160120734009	Jayashree Kumari			650692221
17.	160120734025	Azeed			7032904957
18.					
19.					
20.					



**WHO CAN ATTEND**

Students (UG & PG)  
Faculty Members  
Research Scholars  
Consultants and Industry Professionals

**VENUE**

Seminar Hall ,CBIT ,Gandipet, Hyderabad, 500075

**DURATION**

18 Hours ( Each day 3hours in the FN session for 6 days)

**ORGANISING COMMITTEE**

**CHAIRMAN**

Dr. P. Ravinder Reddy  
Principal – CBIT

**CONVENER**

Dr.K.JagannadhRao  
Head,  
Department of Civil Engineering,CBIT

**CO-ORDINATOR**

Sri. P. Srinivas Reddy  
Assistant Professor,  
Department of Civil Engineering,CBIT  
Sri. M. Kalyan  
Assistant Professor  
Department of Civil Engineering,CBIT

Dr. T. Chaitanya Srikrishna  
Assistant Professor  
Department of Civil Engineering,CBIT

**REGISTRATION LINK**

[https://docs.google.com/forms/d/e/1FAIpQLSeIV0OPz2HwWl6dSwdwQ0-fdSXxeYm7QSevnujYOnIkMwzIBw/viewform?usp=st\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeIV0OPz2HwWl6dSwdwQ0-fdSXxeYm7QSevnujYOnIkMwzIBw/viewform?usp=st_link)

**REGISTRATION**

No registration fee, Registration is mandatory

**CONTACT**

Sri. M. Kalyan  
Email :kalyan\_civil@cbit.ac.in, Phone : 9030144407  
Dr. T. Chaitanya Srikrishna  
chaitanya\_civil@cbit.ac.in , Phone : 8019206828



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Gandipet, Hyderabad, 500075  
Telangana State, INDIA



## ABOUT COLLEGE

CBIT, a pioneer in technical education in the state of Telangana, is one of the premier Engineering Colleges in India. It is located in idyllic surroundings of Gandipetlake, Hyderabad and has been standing as a temple of knowledge for the past 42 years. CBIT is an autonomous institution under UGC from 2013 and accredited by NBA-AICTE and NAAC-UGC. The college offers 9 UG and 11 PG programs over the years. CBIT produced several eminent and skillful engineers, spread all over the globe. The institute has received research grants to the tune of Rs. 2.5 Crores from various funding agencies such as AICTE/UGC/DST. Brilliant and meritorious candidates with good EAMCET ranks seek admissions at CBIT. The students are prepared and perfected to secure placements in MNCs through college Career Development Center.

## ABOUT THE DEPARTMENT

Civil Engineering Department of the institute started functioning right from the inception of the institute, in the year 1979. It has well qualified, experienced and dedicated faculty and committed supporting staff. Apart from giving their best in academics, the students of the department are highly enthusiastic & actively participate in various co-curricular & extra-curricular activities. The laboratories of the department are well equipped with advanced and sophisticated instruments, to fully satisfy the training needs of the students and research and consultancy needs of the department as well. The department offers one UG programme (Two Sections) and one PG Programme (Structural Engineering). Conducting seminars, workshops and conferences on the latest developments in civil engineering, arranging expert lectures and industrial visits for the benefit of staff & students, is a regular feature in the department. The department also offers Consultancy Services for various Government and Private Agencies and has completed a good number of prestigious projects. It is a matter of great pride that this Department has submitted the draft for 'Water Policy' for the newly formed Telangana State.

## ABOUT THE TRAINING PROGRAMME :

Bridges have been the symbols of Civilization and the standing examples of human ingenuity over the years. Bridge construction dates back to as old as the age of primitive man and the bridge forms have evolved over centuries posing challenge to not only structural engineers but also many interdisciplinary allied fields. A deeper insight into this field reveals that although there is not much of change in the basic principles of analysis and design of bridges, it is the new materials and the techniques that have brought in a striking difference in the modern context. There is thus a glaring need for the budding engineers to keep themselves abreast of the developments in bridge construction while comprehending the basics of bridge analysis and design. Realising this need, the Civil Engineering Department of CBIT has taken initiation in organising this training programme by utilizing the services of a renowned professional in the field as facilitated by AICTE.

## TOPICS TO BE COVERED IN THE TRAINING PROGRAM

1. Development of the bridge-form globally during the past 3500 years – 1 day
2. Why do bridges in our part of the world crack and demise much earlier than in many of the first world countries ?? – 2 days
3. Economics and quantity-trends in alternative bridge-structure schemes – 2 days
4. Economics and quantity-trends in alternative flyover-structure schemes – 1 day

## OBJECTIVES OF THE TRAINING PROGRAM

This training programme is intended to enable the participants

1. Understand and appreciate the evolution of bridge form over the years
2. Know the specific reasons for why the bridges in this part of the world are more vulnerable to damages and decay
3. Understand the economics of various types of bridge structures and the adaptability of various alternative forms
4. To gain exposure to various alternative form of flyover structures.

## ABOUT THE SPEAKER

**Dr. Virindra K. Raina**

Ph.D.(London), DIC (London), MICE (London), C.Eng.(London),

P.Eng. (Ontario, Canada)

-Registered CHARTERED Engineer: UK and Europe

-Registered PROFESSIONAL Engineer: Ontario, CANADA

-Distinguished Chair Professor - BRIDGES : AICTE

Dr. Virindra Kumar Raina is a towering personality in the field of bridge engineering. He is a highly qualified and experienced practicing professional civil engineer with sustained private sector experience.

Dr. Raina has completed many challenging consultancy assignments in over 20 countries in the world, like Qatar Sea link (40km long Causeway through the Arabian Gulf). He has designed and supervised construction of over 100,000 lanometers of concrete bridges in different countries on various types of foundations in different substrata conditions. He has imparted training to many senior engineers, all over the world. Dr. Raina is a recipient of various prestigious awards.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS), HYD-75  
DEPARTMENT OF CIVIL ENGINEERING

Date: 29-06-2022

No: CBIT/CED/038/25-6-2022.

Note submitted to the Principal:

Sub.: Request for Budget approval for conducting workshop -Reg.


Ref.1. Letter of AICTE, SCRO; from Principal, Email Dated: 13-5-2022.

2: Department letter email to AICTE, SCRO, dated: 19-5-2022.

3: Email from AICTE, SCRO dated: 23-06-2022.

\*\*\*


In Ref.1 cited above, AICTE has approved five training programs of 6 days each (every day two sessions of 3 hours each) on "Crying Needs in Bridge Engineering" to be delivered by Prof Dr. Virindra K. Raina, Distinguished Chair Professor - BRIDGES: AICTE to the Faculty and Students (UG & PG) from Civil Engineering and allied disciplines. AICTE, SCRO asked for the consent of CBIT to organise one such programme as a nodal centre. In the Ref2. Cited above, the department of Civil Engineering has prepared the budget estimate (Rs.1,80,000/-) and drafted a letter to the AICTE. AICTE has approved CBIT as a nodal center to conduct the above workshop from 22nd to 27th August, 2022 (Ref 3). The honorarium for the resource person will be borne by the AICTE. The expenses for lunch and snacks are proposed to be met from the registration fees. Hence an amount of Rs 65,000/- is the budget to be sanctioned by the Institute. The proposal and the budget for the workshop may be approved.


  
27/6/22  
Head CED.

Enclosures:

Ref.2 & 3 above

An Amount  
Rs 65,000 may be approved

  
29/06/2022  
Principal

  
Principal



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), Hyderabad**  
Department of Civil Engineering

Date: 05-09-2022

**Note Submitted to the Principal:**

Sub: CBIT – CED -AICTE Approved One week Training program on Crying Need in Bridge Engineering for Capacity – Building – Adjustment of accounts - Reg.  
Ref: 1. Email from Director FDC AICTE dated July 25, 2022.  
Ref: 2. Letter for Budget Approval No- CBIT/CED/038/25-06-2022 dated – 29-06-2022.

The following is the expenditure incurred for the training programme mentioned in the subject:

**EXPENDITURE DETAILS**

S. No	Particulars	Amount
1.	Conveyance charges (To Airport & return) on 21/08/2022	1,000.00
2.	Conveyance charges (Hotel to CBIT and return) 22 <sup>nd</sup> to 27 <sup>th</sup> August 2022(2000+2000+500)	4,500.00
3.	Conveying charges (To Airport & return ) 28/08/2022 + Local Trip	1,500.00
4.	Parking charges at Airport on 21/08/2022	200.00
5.	Parking charges at Airport on 28/08/2022	100.00
6.	Food Expenses from 23/08/2022 to 28/08/2022	
	a). 23.08.2022	465.41
	b). 24.08.2022	450.40
	c). 25.08.2022	326.46
	d). 25.08.2022	644.70
	c). 27.08.2022	784.95
	d). 28.08.2022	854.94
		3,526.86
7.	Flower Bouquets for guests	400.00
8,	Flight Tickets	
	a). Delhi to Hyderabad -21/08/2022	7,871.00
	b). Hyderabad to Delhi – 28/08/2022	8,184.00
	c). Aisle seat charges Delhi to Hyderabad	250.00
	d). Aisle seat charges Hyderabad to Delhi	250.00
		16,555.00
9.,	Hospitality and Accommodation at the hotel	27,115.00
	<b>Total Expenditure</b>	<b>54,896.86</b>

Total Expenditure excluding Hospitality and Accommodation at the hotel = 27.782

Advanced Drawn (15,000+12,000) = 27,000

Balanced to be reimbursed = 782

An amount of Rs. 782/- is to be reimbursed to HoD (Civil), and the bill for Hospitality and Accommodation at the hotel Rs. 27,115/- to be paid to the account details given in the cancelled cheque attached.

  
Head, CED

File

Chaitanya Bharathi Institute Of Technology (A)		
Crying Need in Bridge Engineering for Capacity - Building		
Participants List		
S.No	Name	Designation
1	Dr.K.Jagannadha Rao	Faculty
2	Dr.M.V.Krishna Rao	Faculty
3	Sri A. Balaji Rao	Faculty
4	Dr. N. R. Dakshina Murthy	Faculty
5	Smt K. Manasa	Faculty
6	Sri. P. Srinivasa Reddy	Faculty
7	Sri.E Maheshwar Reddy	Faculty
8	Sri. M. Kalyan	Faculty
9	Dr. T. Chaitanya Srikrishna	Faculty
10	Sri. Vishwanath Gopisetty	Faculty
11	B.S.Chaitanya	Research Scholar, NIT Warangal
12	S.Vinod Kumar	Engineer
13	G.Karunakar	ME
14	A.Sai Krishna	ME
15	S.V.muthesham Ahmed	ME
16	S.Anil	ME
17	M.Sai Maheshwar Reddy	ME
18	SK.Humer	ME
19	P.Rithvik Sai Kumar	ME
20	S.Kavya Sri	ME
21	D.Ashok Kumar	ME
22	R.John	ME
23	Md.Maurijuddin	ME
24	M.A.Quadar	BE
25	Sreejan Reddy Kandi	BE
26	chirag nankani	BE
27	K.Anjaneya varma	BE
28	P.Rakesh	BE
29	Khyathi Vardhini	BE
30	S.Ibrahim	BE
31	B.K.R.Srikari	BE
32	S.Akhila	BE
33	Pravalika	BE
34	G.Tulasi	BE
35	B.Nandini	BE
36	Gundoju rahul	BE
37	Moosa Mohammed	BE
38	Jaivanth Kumar	BE



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY**  
**Gandipet, Hyderabad – 500075**

**Report**  
**on**  
**AICTE Approved**  
**One Week Practice – Oriented Intensive Training Program**  
**on**  
**Crying Needs in BRIDGE Engineering for CAPACITY-BUILDING**  
**22-27, August 2022**

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**Resource Person – Dr. Virindra K. Raina**

**Convener – Dr. K. Jagannadha Rao**

The Following Topics were discussed in the Training Program by the speaker

**DAY - 1**

**Development of the bridge-form globally during the past 3500 years**

Dr. Virindra K. Raina has briefed about the historical development of bridges

Back in 1502, the great master Leonardo da Vinci produced master sketch for a 240 M stone Structure intended to span the Golden horn inlet in Istanbul but then nearly 500 years ago, when the sketch was made, the available technology was incapable of realising such an ambitious structure. Later in 1840's the transition from timber to steel began. In this period cast iron was tried out by bridge builders in 1856.

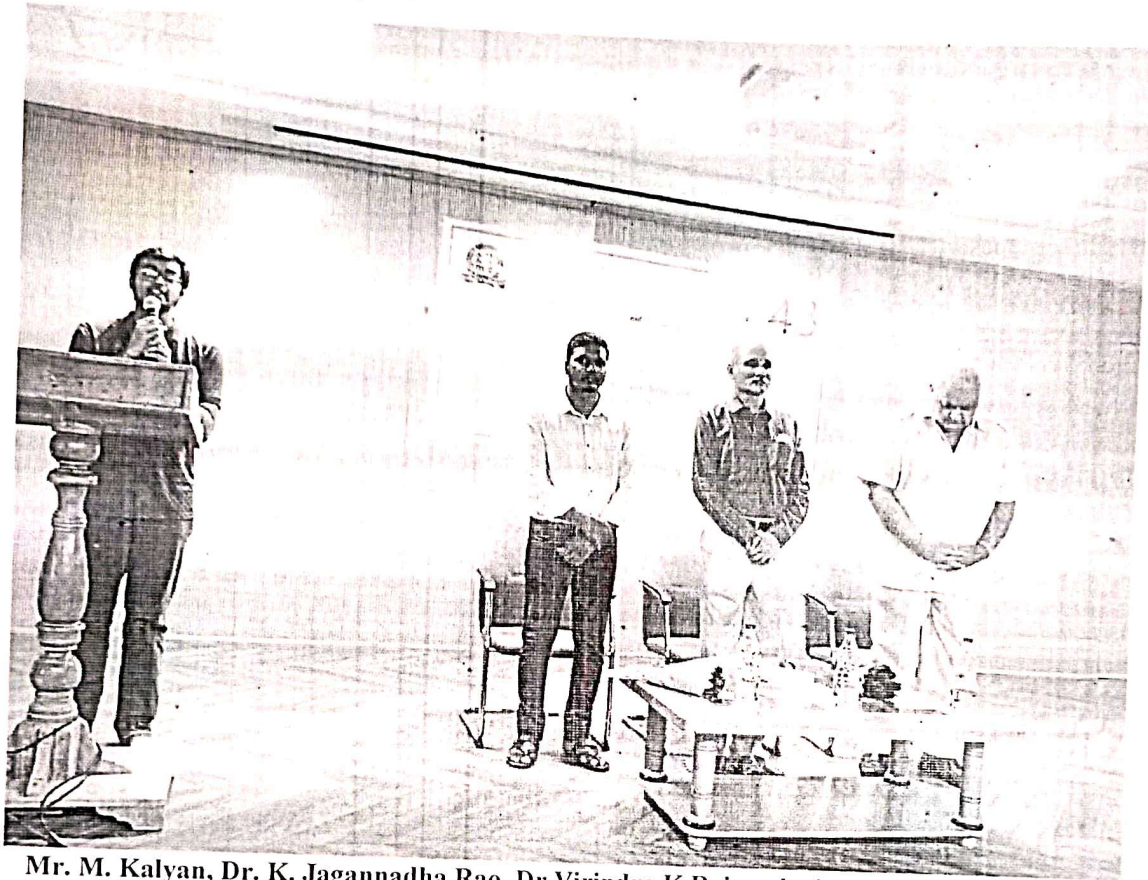
Bessemer patented a process for making large quantities of steel economically by the turn of 19th century, the growing use and availability of structural steel and greater skills in analysis, design and construction-methods paved the way for longer span bridges. Many elegant bridges were built, like Lin-dern-thal's manhattan bridge (1909) with 450m span. Amman, a Swiss engineer, Amman's Verrazano narrow bridge in New York was opened in 1964 with a span of 1300m which was a landmark in history of long span suspension bridges.

Dr. Raina also explained the lessons in ensuring aerodynamic stability were learnt in a hard way by the tragedy of the 855 Tacoma Narrows Bridges which fluttered and perished in 1940 at a 64 km/hr wind. Later in 1960's a new type bridge of suspension bridge deck was made for the Tagus Bridge in Libson. Severn Bridge, Wales, and it was the first suspension bridge of the modern type (Aerofoil deck-section), 1962-1966. Dr. Raina also explained The Hyatt Regency hotel walkway collapse as a major introspection based on many a Bridge Disaster. Later he added that the Kings Bridge failure due to brittle fracture did not mean that welding of steel box girders was banned. It only underlined the need for the right welding technique to be made available for the bridges. He then discussed the series of box girder failures of the 1970's could not lead to the conclusion that there was anything fundamentally wrong with the thin plated structures.



Sound design is achieved above all by wisdom and judgment with which the designer applies his results with great courage and judgment are demanded of the Enquirer, as he has a task which requires freedom from bias while at the same time demanding a definite option "good judgment comes out of experience and good experience often comes out of bad judgement".

Dr. Raina concluded the session on Day 1 with a gratitude to a great prof. Fritz Leonhard, who hypothecated the use of A-form pylons with corresponding inclination of planes of cables, fan shaped smaller diameter cables at closer spacing etc., are the new trends in the design to realise the large spans.



Mr. M. Kalyan, Dr. K. Jagannadha Rao, Dr. Virindra K. Raina, during the inaugural session.

## DAY - 2

**Why do Bridges in our part of the world crack and Demise much earlier than in many of the first world countries??**

Dr. Virindra K. Raina clarified the error we make when determining compressive strength by testing three cubes, which has an accuracy of 3/20. Later, he described the acceptable cube strength criterion, the appropriate time to start concrete curing, concrete mixing drum agitating rpm, effect of wind, relative humidity and ambient temperature for concreting. He then explained why Plastic concrete can develop cracks when the surface evaporation is much more than the rate of bleeding of the concrete. This majorly occurs in slabs and quite less in beams because beams have less surface area exposed to the atmosphere. But the lack of knowledge about this in the filed costed a contractor around \$64M USD.

The solutions to the above mentioned aspects were very clearly explained by Dr. Raina stating that the the cube should be tested when it is wet inside and dry outside, curing is done

right after its initial setting time and the concrete's initial setting time should be 45- 60 min without additives and 120-180 min with additives like plasticisers and retarders. While mixing concrete, the speed should be 25rpm and it should be mixed well for 90.-120 sec and while transporting the concrete the agitating speed should not be more than 2- 5 rpm.

Dr. Raina explained the importance and effect of optimum temperature for concrete work and stated that it should be around 32°C, and variation in temperature will have adverse effects and results in poor durable concrete. The surface evaporation of concrete should be 1 lit/sqm/hr. This can also be calculated from the Neville's graph. He further suggested that, in order to tackle this issue when the temperatures are high in summers the concreting work should start from 5pm and continue all through night until morning 11am or accordingly where the temperature is below 32°C.

Dr. Raina went on to provide more comprehensive explanations of the various plastic shrinkage, plastic settlement, and contraction cracks, as well as the typical failure modes in concrete structures, such as flexural cracks, shear cracks, flexure-shear cracks, web shear cracks, failure in deep beams, shear-compression failure, cantilever failure, and torsional failure.

### DAY - 3

Dr. Raina continued his talk on "Why do Bridges in our part of the world crack and Demise much earlier than in many of the first world countries??" on Day 3. He explained the various failures in bridge bearings, expansion joints, shrinkage cracks in abutment footings and also suggested measure to rectify such problems. He further continued to explain the pier-column subjected to sea water, delamination of concrete, plastic shrinkage cracks in r.c.wearing course, etc. The cause for shear, flexure and abutment crushing failure in bridges were clearly explained by Dr. Raina and further he suggested the measures to strengthen them.

Dr. Raina classified the Cracks mainly of 2 types, one is dead cracks – which never open, and the second is live cracks -which open and close. The 28days time is a green phase where the concrete is young and gains strength very fast during this phase the top surface shrinks faster than the bottom surface results in the example given 64 million USD loss. After 28 days the phase of the concrete is known as the service phase.

He further discussed the chemical cracks occur after 4 years that mostly occur in the areas of high moisture like Vizag and Bombay. The chemical cracks are due to Sulphate attack and Chloride attack. To avoid this Dr. Raina suggested to use Colloidal concrete (blast furnace slag cement) or use sulphate resisting cement when the temperatures of that area is below 25 degrees and should be strictly avoided in tropical regions

Dr. Raina explained the common repair technique in treating cracks, i.e. epoxy injection. He further added that it is advisable to use a 2-component epoxy (resin + hardener) for effectiveness. He further explained the crack healing by epoxy use various real life examples. He further explained the significance of stapling / stitching in arresting cracks.



## **DAY - 4**

### **Economics and quality-trends in alternative bridge-structure schemes**

The training course's fourth day is titled "Quantity trends in certain alternative Flyover structure schemes." The program started with the Pearl of Perfection by the great master Leonardo Da Vinci, but the inspiration for it extends back many years to earlier from a log across a stream, successive logs jetting out, a cantilever, etc. The development of bridge forms, grade separators, viaducts, flyovers, etc. were also covered by Dr. Raina. He then went on to describe the requirement and significance of design, drawings, and bill of quantities that the customer is expected to provide.

Dr. Raina explained how to decide the trial dimensions, analysing a structure, designing based on iterations, detailing, drawings, bill of quantities and finally the cost. He then discussed the choice of construction materials, type of bridges to be considered for design based on the field conditions and extended to the efficiency of flanged I & T sections, voided slab deck.

As the discussion went from short span bridges to heavier and longer spans, Dr. Raina explained how circular void cells evolved into rectangular void cells, leading to the creation of the Box section. He continued shortly after by saying that a single cell box was transformed into a multiple cell box whose section depth was limited and offered greater torsional strength.

"FLY-the-traffic-OVER-and-across-an-obstruction" is how Dr. Raina defined the term "FLYOVERS." The significance of the flexibility and stiffness matrix approach of structural analysis was then discussed. Dr. Raina discussed the various types of sectional elements in a flyover girder, stability tower, precast abutments and wingwalls.

## **DAY -5**

The training program's fifth day is titled "Economics and Quantity - Trends in alternative bridge structural plans." The resource person has described how bridges will be analyzed and developed in accordance with the client's requirements while taking into account a variety of alternative choices, such as the types of bridge, span, deck type, type of concrete, etc. Dr. V.K. Raina also went over the development of the drawings, detailing, and bill of quantities.

The development of building materials and construction techniques, including the voided deck slab, single cell box section, and multiple cell box section, was then covered by Dr. Raina. The resource person has described the relationship between span length and cost per unit of deck plain area as well as the estimated amounts of concrete and steel used in different types of bridge decks.

Dr. Raina also discussed the optimal span lengths for various bridge designs. Dr. Raina went into great depth on the various types of bridge structure, construction, traffic details, construction time, and maintenance for various types of bridges i.e.: continuous beam and slab R.C. deck bridge (cast-in-situ), continuous box girder R.C. decks (cast-in-situ), simply supported precast prestressed girders with cast-in-situ R.C. diaphragms, simply supported

P.S.C. box girder. He then went on to discuss how different criteria, such as deck depth, span, cost per unit area, reinforcement, concrete content, prestressing force, etc., affect different bridge types.

## DAY - 6

### **Economics and quality-trends in alternative Flyover-structure schemes**

Dr. Raina has continued his lecture from Day 5 by addressing the significance of span lengths (two, three, and four spans), the span-to-depth ratio, and concrete deck thickness for the safety and efficiency of the bridge structure. Different types of bridges, including continuous beam and slab R.C. deck bridges (cast in situ), continuous box girder R.C. decks (cast in situ), simply supported precast prestressed girders with cast-in-situ R.C. diaphragms, and simply supported P.S.C. box girder, were the subject of the design investigation.

These studies gave us some really useful information for developing a concrete bridge part. The design output was then described by Dr. Raina in terms of the reinforcement requirements based on different span lengths and span-to-depth ratios. Dr. Raina displayed the several forms of bridges, each with a different number of spans, span-to-depth ratios, and the accompanying concrete and reinforcement requirements, showing the most efficient type of bridge based on those specifications. The resource person's extensive material shows how the economics of a bridge is impacted by factors like the number of spans, span lengths, and span-to-depth ratios.

Finally, in addition to the necessary amount of concrete, the reinforcement in terms of kg/cu.m of concrete and kg/unit length was also discussed. Dr. Raina assimilated all of the available data and profoundly recommended the bridge that would be the strongest and most cost-effective.



Head, CED

**PROFESSOR & HEAD**

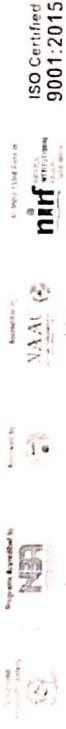
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EDUCATION

# 43

years

**AICTE Sponsored One week Training Program**  
**On**  
**CRYING NEEDS IN BRIDGE ENGINEERING FOR CAPACITY-BUILDING**

## CERTIFICATE

This is to certify that Mr. A.Sai Krishna, III Semester M.E., CBIT(A), Hyderabad has participated and successfully completed the AICTE Sponsored One week Training Program on "CRYING NEEDS IN BRIDGE ENGINEERING FOR CAPACITY-BUILDING" organized by the Department of Civil Engineering in association with Prof.V.K.Raina during 22 - 27 August,2022.

Dr. K. Jagannadha Rao  
Convener

  
Dr. P. Ravinder Reddy  
Principal