



Criteria 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year 2023-24.

S.No.	Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development	Page No.
1	workshops/seminars conducted (Part-1)	1-231
2	workshops/seminars conducted (Part-2)	232-328
3	workshops/seminars conducted (Part-3)	329-507





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No. 1017 /CBIT-AEC/2023

Date: 05.09 2023

CIRCULAR

The Department of BioTechnology is organizing an Alumni Talk No. 02/2023 on 06.09.2023 from 11:00 AM to 12:00 Noon through offline mode, as part of the 'CBIT Alumni Theme for 2023, The Knowledge Partners'. The details of the talk and the Alumnus speaker are as follows:

Title of the talk	:	Exploring	Career	Options	While	Pursuing	a	B.Tech	in
		Biotechnole	ogy						
Speaker Name	1	Mr. Mohitl	n Reddy A	Arikatla					
Venue	:	M-002 (Bio	tech Sem	inar Hall)					

Mr. Mohith Reddy Arikatla is an Alumnus of CBIT, 2022 batch of B. Tech. Biotechnology. Currently, Student in MS Computational Biology program at Weill Cornell Medicine, Cornell University, New York

All the students of B. Tech (Biotechnology) of II, III and IV year, are required to attend the talk. The attendance will be taken by the concerned class teachers. Interested students and faculty of other departments are welcome to attend.

PRINCIPAL

CC: The Head of the Department of Bio-Technology & necessary action CC: All Directors, COE, HR & PRO for information. C.C. to the Advisor-RCG, CBIT, for kind information

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HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

<u>Chaitanya Bharathi Institute of Technology (A), Hyderabad</u> Department of Biotechnology A BRIEF REPORT

On

Biotechnology-Alumni Talk conducted on 06th September, 2023; 12:00 - 1.00 PM

Name of the Knowledge Partners	Mr. Mohith Reddy Arikatla (2022 batch of Biotechnology)
Designation	Master's Student, Computational Biology Program, Weill Cornell Medicine. Cornell University, New York, USA.
Topic of presentation	Exploring career options while pursuing a Btech in Biotechnology

Venue : M-002 (Biotech seminar hall)

Background of the Talk

Biotechnology is a vast field with numerous opportunities, and gaining exposure to different career paths can help you make informed decisions about your future. Exploring careers while pursuing biotechnology can be an exciting and beneficial endeavor. The biotechnology industry is dynamic and continually evolving, making it an exciting field for those who are passionate about science, innovation, and making a difference in the world.

Overview of Session

Dr. V. Aruna, Associate professor Biotechnology hosted the meeting and gave a brief introduction about **Mr. Mohith Reddy Arikatla,** Master's Student, Computational Biology Program, Weill Cornell Medicine, Cornell University, New York, USA.

Mr. Mohith Reddy Arikatla started the session by sharing his experience in exploring the Biotechnology field that involved a series of steps and a range of considerations. Mr. Mohith mentioned that a career in biotechnology offers a wide range of opportunities to work at the intersection of biology, chemistry, and technology to solve complex problems and make a positive impact on society. He gave great insights on the different career paths and roles within the field of biotechnology like Biomedical Researcher/Scientist,

Bioprocess Engineer, Clinical Researcher, Quality Control, Biotech Entrepreneur, Forensic Scientist to name a few.

The session was interactive as students keenly participated in knowing the different career paths in Biotechnology. He got into detail on how he started his journey right from college and the ups and downs he encountered on the way to choosing a career. He started by joining as a **Phyto research intern at Inocure Tech Pvt Ltd** and finding his passion towards **Computational Biology**. He made a point that exploring careers while pursuing biotechnology is an ongoing process and to do something that you are interested in and passionate about. As you gain knowledge and experience, your career goals may evolve, and you may discover new interests within the field; to stay open to opportunities, keep learning, and adapt your path as needed to align with your passion and aspirations. He suggested kickstarting the journey by joining Internships and Co-op Programs, research institutions, to get hands-on experiences, to network with professionals, attending Conferences and Workshops, seeking Career Counseling and mentoring from faculty. There was a Q/A session for both students and faculties about Masters in Biotechnology, application process and choosing the right University after the talk. Vote of thanks was given by Dr. Ashoutosh Pandey (HoD, Department of Biotechnology).

Target Participants:

All the students of B.Tech Biotechnology (III-Semester; VI-Semester; VII-Semester) and Faculties of Biotechnology department attended the session.

Outcome of the Session

- Deep insights on different career paths in Biotechnology field and how one can choose among the various paths available
- Biotechnology as an emerging field offers a wide range of opportunities for those who are passionate about science, innovation, and making a difference in the world.
- Detailed road map to pursue a career in Biotechnology which can be either a masters program, research program or work in the field.

Snapshot during the session





Dr. V. Aruna Associate Professor, Biotechnology Coordinator-Program Content Committee

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Dr. B. Mishra Asst. Professor, Biotechnology Coordinator-Program Content Committee

Nget.

Dr. C. Nagendranatha Reddy Asst. Professor, Biotechnology Coordinator-Program Content Committee

Afandas

Dr. Ashoutosh Pandey Professor and Head, Biotechnology

HEAD Dept. of Bio-Technology Chaitanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) ACADEMIC & EXAMINATION CELL

The alumni talk to be delivered by Mohith Reddy A (2022 alumnus) on 06.09.2023

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Alandar 06.00. 223 Ar 6/04/23 1. Dr. A. Panday 2. Dr. Kivan JV 115 6/1/23 6/9/23 27 7:57222 6/9/2023 3. Dr. J. SumiTHRA A Dr. G. Kyayadasoon 5. Dr Spendarste 6. Dr. V. Arune A Pandos G/ 9/223 Dept. of Bio-Technology Dept. of Bio-Technology (Technology (Technology) (Technology) (Technology) (Technology)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania University)

The alumni talk to be delivered by Mohith Reddy A (2022 alumnus) on 06.09.2023

Tech. (BIOTECH) -V SEMESTER		BIOTECH) -V SEMESTER Batch: 2021-22		
S.No	Rolls List	Name of the Candidate	Signature	
1	1601-21-805-001	ALEKHYA PASUMARTHY	A State State State	
2	1601-21-805-002	AMATUL RAHMAN KHADIJA	and the second second	
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HEAD Dept. of Bio-Technology Chaitanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania University)

The alumni talk to be delivered by Mohith Reddy A (2022 alumnus) on 06.09.2023

S.No	Roll No.	Name of the Candidate	Signature
1	1601-20-805-001	ADITHI REDDI KAMANA	
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HEAD Dept. of Bio-Technology Chaitanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075



No. 10 64/CBIT-AEC/2023

Date: 21.09.2023

CIRCULAR

The Department of BioTechnology is organizing an Alumni Talk No. <u>04</u>/2023 on 27.09.2023 from 03:00 PM to 04:00 PM through offline mode, as part of the 'CBIT Alumni Theme for 2023, The Knowledge Partners'. The details of the talk and the Alumnus speaker are as follows:

Title of the talk	: "From Campus to Career: Why Timing Isn't Everything"
Speaker Name	: Ms. Rithika Gorrepati
Venue	: M-002 (Biotech Seminar Hall)

Ms. Rithika Gorrepati is an Alumnus of CBIT, 2022 batch of B. Tech. Biotechnology. Currently, Intern, Corporate Innovation, T-Hub, Hyderabad

All the students of B. Tech (Biotechnology) of II, III and IV year, are required to attend the talk. The attendance will be taken by the concerned class teachers. Interested students and faculty of other departments are welcome to attend.

Pandes DepCol All Directory COE, HR & PRO for information. Chaltanya Cher Hydrev Hdvisor-RCG, CBIT, for kind information Gandipet. CO. The Heart of His Department of Bio-Technology & necessary action



<u>Chaitanya Bharathi Institute of Technology (A), Hyderabad</u> Department of Biotechnology A BRIEF REPORT

On

Biotechnology-Alumni Talk conducted on 27th September, 2023; 03:00 – 04:00 PM Offline mode (M-002- Biotechnology Seminar Hall)

Name of the Knowledge Partners	Ms. Rithika Gorrepati (2022 batch of Biotechnology)	
Designation	Intern, Corporate Innovations, T-Hub, Hyderabad.	
Topic of presentation	From Campus to Career: Why Timing Isn't Everything	
D I I I I I I I I I I I I I I I I I I I		

Background of the Talk

T-Hub is a Hyderabad-based startup ecosystem that facilitates collaboration between startups, venture capital firms, corporations, governments, and academics. T-Hub enables and strengthens an innovation-hungry ecosystem.

Overview of Session

Dr. C. Nagendranatha Reddy, Associate Professor Biotechnology, hosted the meeting and gave a brief introduction to Ms. Rithika Gorrepati, currently Intern, Corporate Innovations, T-Hub, Hyderabad.

Ms. Rithika Gorrepati started the talk by narrating her accomplishments and experiences in academics as well as co-curricular activities at CBIT. She was a very proactive student and has actively participated in many cultural and technical events and published research papers. She worked on many projects and interned at reputable biotechnology companies like Dr. Reddy's and Laurus Laboratories. Despite securing a decent CGP and having interned at top biotechnology companies, she couldn't find a place to settle

herself immediately after graduating. She addressed the confusions that every youngster, including herself,

had experienced and that every youngster would experience, and she presented some practical solutions to overcome them. She then detailed how, as a biotechnology graduate, she was hired as an intern at T-Hub. She has educated us on the mission, functioning, and career prospects at T-Hub, which is India's largest prototyping center. She has underlined the importance of developing soft skills such as communication, empathy, critical thinking, problem solving, and so on, which are essential to survive in the existing innovative world. She has motivated the students to see how best they can utilize the facilities at T-Hub so that every individual developing an idea can implement it. A vote of thanks was given by Dr. Ashoutosh Pandey.

Target Participants:

All the students of B. Tech Biotechnology (II, III and IV year) and Faculty of Biotechnology department attended the session.

Outcome of the Session

- To always think positively and never give up.
- To learn diverse skills that improve adaptability.
- Concentrate on the principles that cannot be replaced by automation.
- Few non-core opportunities for the Biotechnology graduates.
- How T-Hub is nurturing every individual to foster their skills and ideas.

Snapshot during the session







- Beneath Assumptions about
 Effentity Who am 1.7
 Purpose Why am I here 7 How will I measure life when I look back at it
 Mindset Stories and Assumptions we have about everything uncluding conselves and others and how we define success and fathers.

Dept. of bio-1 Dept. of bio



Dr. V. Aruna Associate Professor, Biotechnology Coordinator-Program Content Committees

Dr. Bishwambhar Mishra Asst. Professor, Biotechnology Coordinator-Program Content Committees

Dr. C. Nagendranatha Reddy Asst. Professor, Biotechnology Coordinator-Program Content Committees

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Dr. Ashoutosh Pandey Professor and Head, Biotechnology

HEAD Dept. of Bio-Technology Chaltanya Bharathl Institute of Technology Gandipet, Hyderabad-500 075 CHAIN

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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) ACADEMIC & EXAMINATION CELL

The alumni talk to be delivered by Rithika (Batch-2022) on 27.09.2023

B.Tech. (Bl	O-TECH) -III SEMESTER	MESTER Batch: 2022-23		
S. NO.	Roll No.	NAME OF THE CANDIDATE	Signature	
. 1	1601-22-805-001	ADEPU SRIHITA	Waishild,	
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3	1601-22-805-003	AREEBAH MAZHER	(Aught	
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7	1601-22-805-007	CHELEMALA KATYAYANI	(k) traymi	
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9	1601-22-805-009	GOLLAPALLI MALAVIKA MALI ESHWARI	(MAN	
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33	1601-22-805-034	SHRUTI DAS MOHAPATRA	Shrutidas	
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42	1601-22-805-043	YANAMALA SWARNA MANJARI	ang-	

NO.	Roll No.	NAME OF THE CANDIDATE	Signature
43	1601-22-805-044	AMOGH ANIL BELLURKAR	
44	1601-22-805-045	BASIKE BHARATH	B-Blocall2
45	1601-22-805-046	BOMMERA RAVIKUMAR	
46	1601-22-805-047	CHATURVEDULA P PRANEETH	
47	1601-22-805-048	CHIGURU PRADEEP KUMAR	
48	1601-22-805-049	DAMA VINAYAK SNEHITH	
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58	1601-22-805-059	SALKAPURAM JOHN WESLY	
59	1601-22-805-060	TANMAY DACHA	Tammay-
60	1601-22-805-062	TUPAKULA VENKATA SAI KARTHIK	
61	1601-22-805-063	ZUBAIR SHAIK HUSSAIN	

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Dept.of Biotechnology

HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania University)

The alumni talk to be delivered by Rithika (Batch-2022) on 27.09.2023

S NO	Rolls List	Batch: 202	1-22
5.100	KOIIS LIST	Name of the Candidate	Signature
1	1601-21-805-001	ALEKHYA PASUMARTHY	Mekhys
2	1601-21-805-002	AMATUL RAHMAN KHADIJA	school
3	1601-21-805-003	ANANYA SURABHI	Que.
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34	4	1601-21-805-036	REKHAM POOJITHA	Part
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HEAD Dept. of Bio-Technology Chaitanya Bharathi Institute of Technology Gendipet, Hyderabad-800 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania II) (Affiliated to Osmania University) The alumni talk to be delivered by Rithika (Batch-2022) on 27.09.2023

B.Tech	(BIOTECH) - VII SEA
S No	VII SEMESTER

5.10	Roll No.	Ratch: 2020	-21
1	1601-20-805-001	Name of the Candidate	Signature
2	1601-20-805-002	ADITHI REDDI KAMANA	Adithi
3	1601-20-805-002	AISHWARYA KULKARNI	Assuralya
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Dept.of Biotechnology

HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gendipet, Hyderabad-500 075



No. 161 P7CBIT-AEC/2023

Date: 30.09.2023

CIRCULAR

The Department of BioTechnology is organizing an Alumni Talk No. <u>05</u>/2023 on 03.10.2023 from 03:00 to 04:00 PM through offline mode, as part of the 'CBIT Alumni Theme for 2023, The Knowledge Partners'. The details of the talk and the Alumnus speaker are as follows:

Title of the :	"Passion, Leadership and Beyond: A Roadmap from
talk	Biotechnology to Managerial opportunities"
Speaker Name :	Ms. Anushka Bera
Venue :	M-002 (Biotech Seminar Hall)

Ms. Anushka Bera is an Alumnus of CBIT, 2023 batch of B. Tech. Biotechnology. Currently, Student, Masters of Business Administration from Symbiosis Institute of Business Management, Bengaluru.

All the students of B. Tech (Biotechnology) of III and IV year, are required to attend the talk. The attendance will be taken by the concerned class teachers. Interested students and faculty of other departments are welcome to attend.

PRINCIPAL

CC: The Head of the Department of Bio-Technology & necessary action CC: All Directors, COE, HR & PRO for information. C.C. to the Advisor-RCG, CBIT, for kind information

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HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderebad-500 075

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<u>Chaitanya Bharathi Institute of Technology (A), Hyderabad</u> Department of Biotechnology A BRIEF REPORT

On

Biotechnology-Alumni Talk conducted on 03rd October, 2023; 03:00 – 04:00 PM Offline mode (M205)

Name of the Knowledge Partners	Ms. Anushka Bera (2023 batch of Biotechnology) Student, MBA from Symbiosis Institute of Business Mangement, Bengaluru.	
Designation		
Topic of presentation	Passion, Leadership and Beyond: A roadmap from Biotechnology to Managerial Opportunities	

Background of the Talk

Anushka Bera was one of the prominent student who walked out of CBIT with an impeccable performance in both academics and extra-curricular activities. She is a Bharatanatyam dancer and she was a semi-finalist in INDIA'S GOT TALENT Season 5 currently pursuing her MBA at SYMBIOSIS, Bengaluru

Overview of Session

A brief introduction about the speaker was given by Jyothika Meenakshi from final year B.tech Biotechnology

And, the talk began and covered the following points

JOURNEY OF ANUSHKA BERA:

- > From a school kid to a semi-finalist in a dance competition
- > Her happy days at CBIT
- > 2023: an MBA odyssey

The session started with a question by the dynamic speaker which followed:

If you were given a chance to choose one thing that you would do for the rest of your life, what would be that thing?

The question made the audience ponder their minds to come up with an answer, some active students answered communication, singing, learning, being happy etc. based on their personality and selfawareness. After listening to the answers, the cool speaker amazed the audience with a different approach to the question i.e. why one should fix with only one thing in life, as life is full of opportunities to explore which made the audience think deeply. Later the speaker dived into her story, which involves her journey as a dancer at the age of four to get a placement at Deloitte.

From a school kid to a Semi-finalist in a dance competition

The speaker started practicing dance at the age of four and excelled in various dance competitions without affecting her academics with proper time management and dedication. She passed her 10th board (CBSE) with a 9.8 CGPA, with a B grade in Mathematics and a popular tag in the school due to her involvement in most of the activities in school. She was quite aware that mathematics was not her cup of coffee so after discussing it with her parents her interest in science made her embark on BiPC for her intermediate that too in Sri Chaitanya College which are well known as not less than to concentration camps of World War. On a

fine day, out of the blue comes a surprise call from Star Plus, India got talent/Dance Plus for a dance audition, she made her decision with her father's support to go to Mumbai for 6 months leaving her academics at stake. She really had a blast at the dance competition and returned to Hyderabad to continue her intermediate after her dance competition journey had a climax at the semi-finals. While she started focussing on her academics she was clueless about the syllabus as she was 6 months behind and after having a discussion with her lecturers she decided to concentrate on IPE exams as of now. When she topped IPE with decent marks she started thinking about cracking NEET but it is not a cakewalk as she needed to prepare both 1st year and 2nd year syllabi in the 2nd year itself and she was clear about her choices that she didn't want her to dedicate her life to medicine, hence she wisely dropped the idea of cracking NEET. After researching a lot (which involved checking all the clubs) she ended up landing in CBIT in Biotechnology as she was interested in Science.

Our speaker quoted words of wisdom she got from her dancing teacher:

"There are three important things in your life, Anushka, first comes health without which we won't be able to do anything in our life, second goes to education where the importance of education needs no words to explain and the third thing is dance, which you love. Anushka never ever compromises about these three things to become the best version of yourself"

These words from her dance teacher were her constant motivation in her life to achieve wherever she stands now, tackling all the obstacles with a pleasant smile.

Her happy days at CBIT

Our speaker with over-the-top skills and diverse interests made into various clubs at the CBIT in her 1st year. She was clear from the first that the more we learn and are surrounded with like-minded people the better the chances of getting into becoming the superior version of yourself. She started as a dancer at Chaitanya Samskruthi and later became the President of the prestigious club. She managed all her club activities without comprising her academics, credit goes to her effective planning. She shared an incident where she got an opportunity as a delegate at CBIT MUN despite having not much knowledge about it she managed to participate actively with the help of her peers, people around her who cheered her, encouraged her, scolded her, whatever they did she took everything with an optimistic attitude and made it to organize CBIT MUN in the following years, which is quite remarkable. She advised the audience to explore things and don't be afraid of unpredictability to get to know about the things they love doing, because at the end of the day the fun we are having with the work we do and our mental peace matters. Mostly she emphasized being part of various clubs and networking with people, which is a great deal in the present technology era.

Anushka was stubborn with her life choices so she sat down and researched, self an analysis of herself, and found that she was very passionate about Leadership which made her life take an epic swift from Biotechnology to MBA.

2023: an MBA odyssey:

The major outbreak in her life was made when she started preparing for the CAT exam in late June when the exam was scheduled in November or so. Everyone knows the competition and complexity of the CAT exam but our speaker with her dedication and commitment paved her way into SYMBIOSIS, Bengaluru, one of the elite institutions offering MBA programs. One of the major obstacles she faced during her MBA was justification for her shift from Biotechnology to an MBA program out of nowhere. She was 21 years old in the class filled with the 24-30 age group people, but she managed to do well and communicate with everyone she attributes this ability to the clubs was exposed to and the life lessons she learned during for Recently there were placements going at Deloitte, where 160 students gave interviews, life journey. and 4 students were shortlisted for the offer our speaker was one among them even though she had only 4-5

months of academic exposure at Symbiosis. When asked, how she was able to crack the interview, she serenely credited her thirst for learning the things she loves and being passionate about life. When asked why the speaker didn't choose dance as a career option apart from an MBA, she calmly replied that there were tons of great dancers and skillful MBA students but for her becoming a dancer with an MBA degree sounded a pretty cool deal and hence she chose MBA without leaving dance as a career.

Target Participants:

All the students of B. Tech Biotechnology (III and IV year) and Faculty of Biotechnology department attended the session.

Outcome of the Session

The session was concluded with the following insights from the speaker.

- Sat down and self-analyze yourself from within to know yourself i.e. be in the quest for selfimprovement
- Participate and be involved in most of the club activities to get a nice exposure to quite a lot of different things then decide what you truly love and are passionate about.
- Don't let the fear of unpredictability and ignorance about things stop you from doing new things but enjoy learning things with an optimistic approach surrounded by minded people.

The audience found the talk to be very insightful and inspirational with a lot of lessons to learn and incorporate in their lives

Snapshot during the session



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Dr. V. Aruna Associate Professor, Biotechnology Coordinator-Program Content Committees

Dr. Bishwambhar Mishra Asst. Professor, Biotechnology Coordinator-Program Content Committees

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Dr. C. Nagendranatha Reddy Asst. Professor, Biotechnology Coordinator-Program Content Committees

Dr. Ashoutosh Pandey Professor and Head, Biotechnology HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania University)

The alumni talk to be delivered by Anushka Bera (Batch-2023) on 03.10.2023

B.Tech.	B.Tech. (BIOTECH) -V SEMESTER Batch: 2021-22			
S.No	Rolls List	Name of the Candidate	Signature	
1	1601-21-805-001	ALEKHYA PASUMARTHY	Alery	
2	1601-21-805-002	AMATUL RAHMAN KHADIJA	Charles .	
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43	1601-21-805-045		- A la
44	1601-21-805-046		farancho.
45	1601-21-805-047		CAT He Da
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47	1601-21-805-049		Pagwa .
48	1601-21-805-050		Ch Rock
49	1601-21-805-051	GUGULOTH BHASKAR	G. Aous - 1
50	1601-21-805-052	GUTHIKONDA SAI PRASHANTH	9. Bourseal
51	1601-21-805-053	ΗΑΝΟΚ ΑΦΙΤΥΑ Κ	Aleys
52	1601-21-805-054	KANDIMALA VENKAT KEERTHAN	(PPK)
53	1601-21-805-055	KUNAM SAI SUNDER	Sunder.
54	1601-21-805-056	MANIKONDA RAHUL	PM& Raby
55	1601-21-805-057	MOHAMMED RAHMANUDDIN	Robins
56	1601-21-805-058	PARSHA TILAK	5
57	1601-21-805-059	POLAMRAJU VENKATA KASYAP	Kentagos
58	1601-21-805-060	REGOTI SAIRAM	Saikam.
59	1601-21-805-061	SAVARKAR SHIVA PRASAD	8 shra
60	1601-21-805-062	SHUMAYL MOHAMMED SAMI	Sani. Sheney
61	1601-21-805-063	SYED ZUBER ALI	- Augu Syeet-
62	1601-21-805-064	TOGANTI KRANTHI	1

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Dept. of Biotechnology HEAD Dept. of Bio-Technology Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, AUTONOMOUS (Affiliated to Osmania University)

The alumni talk to be delivered by Anushka Bera (Batch-2023) on 03.10.2023

B.Teo	ch. (BIOTECH) - VII SEME	TER Batch: 2020-21		
S.No	Roll No.	Name of the Candidate	Signature	
1	1601-20-805-001	ADITHI REDDI KAMANA		
2	1601-20-805-002	AISHWARYA KULKARNI		
3	1601-20-805-003	ALWINA G		
4	1601-20-805-005	BADAVATH MOUNIKA	Hounik	
5	1601-20-805-006	BODIKA SHYNISHA		
6	1601-20-805-007	CHAITRA GALI	Contraction (
7	1601-20-805-008	CHUNDURU SAI HARI HARA SUDHESHNA	Ch. Sucher ma	
8	1601-20-805-009	DIVYA PREMA SUROJU		
9	1601-20-805-010	FOUZIA RAFATH SHAIK		
10	1601-20-805-012	HAMSINI KATLA	Lu Pri	
11	1601-20-805-013	JYOTHIKA MEENAKSHI KAMBHAMPATI	K-JMeenalista	
12	1601-20-805-014	KAVYA PASIRIKA PATHIPAKA		
13	1601-20-805-016	NAGA VENKATA SUJATHA KOLLURU		
14	1601-20-805-017	NEHA REDDY MARAPALLI		
15	1601-20-805-018	REENA PRAVALLIKA BALLA		
16	1601-20-805-019	SAI LEELA SIRISHA VALLURU	Sirish	
17	1601-20-805-020	SAI SHRIYA Y		
18	1601-20-805-021	SANJANA REDDY PAILLA	A 1 1	
19	1601-20-805-022	SATHVIKA KURUVELLA	Sattik	
20	1601-20-805-023	SHARVANI POKALA	J-mari	
21	1601-20-805-024	SHIVANI REDDY KAPPATI		
22	1601-20-805-025	SHREECHANDRA SALUKUTI		
23	1601-20-805-026	SHREENIJA PERI		
24	1601-20-805-027	SHREYA BANALLA		
25	1601-20-805-028	SHRIYA REDDY PATLOLLA		
26	1601-20-805-029	SNEHA B		
27	1601-20-805-030	SOUBORNI NANDY		
28	1601-20-805-031	SOUMYA MANDALA		
29	1601-20-805-032	SPOORTHI SADA	Sposthisada	
30	1601-20-805-033	SRAVANI NEELAM		
31	1601-20-805-034	SRI VARSHA VANGA		
32	1601-20-805-035	TANMAYI BOREDA		
13	1601-20-805-036	LIMAMAH FATIMA SYEDA		

	Roll No.	Name of the Candidate	Signature
-N	1601-20-805-037	V SHREYA SHARMA	
34	1601-20-805-038	VENNELA LAKAVATH	
35	1601-20-805-039	AKASH GADDAM	
37	1601-20-805-040	ALLOJU ABHISHEK	
38	1601-20-805-041	ANIRUDDHA SREERAM BOBBILI	ary
39	1601-20-805-042	ASHISH RAMAGALLA	
40	1601-20-805-043	BADHE NITIN RATNAM	A Contraction
41	1601-20-805-044	BALAJI DOOLAM	0
42	1601-20-805-045	BHANU PRAKASH THIRUNAGARI	Fife
43	1601-20-805-046	CHENNA KESHAVA CHARAN MATTA	
44	1601-20-805-047	DINESH REDDY PATLOLLA	
45	1601-20-805-048	DIVYAMSHU SURABHI	'hat j
46	1601-20-805-049	GOURAV T	- Chair Ho-
47	1601-20-805-050	HARISH POLE	· P
48	1601-20-805-051	HRITHIK KOLLURU	tat
49	1601-20-805-052	KALLURI CHETAN BABU	
50	1601-20-805-053	METTU VIKKI KUMAR	
51	1601-20-805-054	MIHIR CHANDRA MADASU	
52	1601-20-805-055	RAKESH REDDY NARU	
53	1601-20-805-056	SAI CHANDRA VARNA KORRAPATI	20hil
54	1601-20-805-057	SAI PRATHIB DIDUGU LALITHA KUMARI	a o
55	1601-20-805-058	SAMANTH CHINTHAKINDHI	Ehr
56	1601-20-805-059	SUMANTH RAO MAMIDI	
57	1601-20-805-060	YASHASVI KAMBHAMPATI	

Head Dept. of Biotechnology HEAD Dept. of Bio-Technology Chaltanya Bharathi Institute of Technology Gandipet, Hyderabad-500 075





Venue: 'N' Block Seminar Hall

Report on the Guest lecture by Dr. Jagadeesh Gandla regarding "Current Trends in Biotechnology"

Date: 11.10.2023 Time: 02:30 PM to 04:05 PM

On the 11th of October 2023, The Bioengineering and Biotechnology Club of CBIT (BBCC) in collaboration with the Department of Biotechnology and Biotechnology Department FABA Coordinators; Dr. S. Sumithra and Dr. Sanjeeb Kumar Mandal, hosted a Guest Lecture by Dr. Jagadeesh Gandla, COO of The Federation of Asian Biotechnology Association (FABA), for I, II, III & IV Years of B. Tech Biotechnology students. The session was held during the timeslot of 02:30 PM to 04:05 PM at "N" Block Seminar Hall with the following agenda:

- To determine the required skills for graduating students to improve employability.
- To update and enlighten students on growing domains in the Healthcare Industry.
- To emphasize the need for experience in technologies such as AI, Big data, Gene editing etc.
- To indicate the importance of One Health, Precision Medicine, and sustainable healthcare for the future.

The following pattern was observed during the session:

- 1. The honorable guest, Dr. Jagadeesh Gandla, received a welcoming bouquet from BBCC Faculty Coordinator Dr. G. Vijaya Laxmi. Afterward, an introduction of the speaker highlighting their domain and accomplishments in the field of Biotechnology.
- 2. This was followed by a presentation from the speaker, elaborating on the Federation of Asian Biotechnology Association, and their role in upskilling graduates of biotechnology. Continuing, Dr. Jagadeesh shared insights into their previous work and the projects they've led in the domain of infectious diseases like Taenia Sodium Taenosis and Neurocysticercosis.
- 3. Moving forward, the speaker delivered a presentation on the upcoming trends in biotechnology, incorporating various technologies such as Artificial Intelligence, CRISPR Technology, Synthetic Biology, Genome Sequencing, and Biomanufacturing. Furthermore, he necessitated the need for students to be adept at the above fields to improve chances of employment and further education, in India and Abroad.
- 4. Subsequently, Dr. Jagadeesh also spoke about the mounting importance of the One Health Program. This initiative seeks to equitably oversee healthcare for humans, animals, and the environment. He also remarked upon the requirement of socio-economic development in the healthcare & biotechnology

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fields, emphasized upon Precision Medicine, and promoted the ideology of equally accessible healthcare to all sectors of society.

- 5. Following the engaging presentation, the guest was honored by the esteemed faculty of the Department of Biotechnology, including a shawl felicitation by Dr. C. Obula Reddy and a memento presented by Dr. V. Aruna.
- 6. Later, our distinguished guest, Dr. Jagadeesh Gandla, had a warm exchange with Prof. Ashoutosh Panday, the Head of the Biotechnology Department, and Prof. C. V. Narasimhulu, the Principal of Chaitanya Bharathi Institute of Technology (CBIT). They engaged in a productive conversation about potential future collaborations, encompassing workshops, establishment of training sessions for life sciences students, facilitated through CBIT as the platform, conferences, and seminars. The prospect of establishing a student chapter was also explored as a promising initiative to inspire and empower biotechnology students to venture into entrepreneurship, aligning with India's burgeoning leadership in the field of Biotechnology.

In conclusion, our heartfelt gratitude extends to the esteemed speaker, Dr. Jagadeesh Gandla, for enlightening the students of the Biotechnology Department on the importance of proficiency in the latest advancements in Biotechnology and enhancing our employability skills through these techniques. We also express our appreciation to our BBCC Faculty Coordinator, Dr. G. Vijaya Laxmi, for her motivation and support in orchestrating invigorating events to aid students in fulfilling their aspirations. Additionally, we extend our thanks to the Biotechnology Department FABA Coordinators; Dr. S. Sumithra and Dr. Sanjeeb Kumar Mandal, for organizing such an informative session for the students.

Total no. of students impacted: 207











PRESS COVERAGE: (12.10.2023)

సమకాలీన బయోటెక్నాలజికల్ ట్రెండ్స్ మీద ఉపన్యాసం



హైదరాబాద్ , దక్షిణాది :

సీబిఐటి యొక్క బయో ఇంజినీరింగ్ మరియు బయోటెక్నాలజీ క్లబ్, మరియు బయోటెక్నాలజీ విభాగం సంయుక్తంగా "సమకాలీన బయోటెక్నాలజికల్ ట్రెండ్స్" అనే అంశంపై అతిధి ఉపన్యాసం నిర్వహించింది . ఈ సందర్భంగా ఎఫ్ఎబిఎ చీఫ్ ఆపరేటింగ్ ఆఫీసర్ డాక్టర్ జగదీష్ గాండ్ల ఆరోగ్య శాస్త్రాలలో ప్రస్తుత ప్రపంచ గతిశీలతను మరియు వన్ హెల్త్ ప్రోగ్రామ్ యొక్క పెరుగుతున్న ప్రాముఖ్యతను గురుంచి వివరించారు . మానవులు, జంతువులు మరియు పర్యావరణం కోసం ఆరోగ్య సంరక్షణను సమానంగా పర్యవేక్షించడానికి ప్రయత్నిస్తున్నారు అని అన్నారు . క్రిస్ప్, కృతిమ మేధస్సు , బిగ్ డేటా, మైక్రోప్లూయిడిక్స్ మరియు మల్టియోమిక్స్ వంటి అత్యాధునిక సాంకేతికతలపై వివరంగా చెప్పారు. ఈ సాంకేతికతలు జీవశాస్త్రం మరియు ఆరోగ్య శాస్త్రాలలో పరిశోధన ప్రయత్నాలను ఏ విధంగా పెంపొందించగలవని, స్థిరమైన భవిష్యత్తుకు మార్గం సుగమం చేస్తాయనే విషయాన్ని ఆయన విపులంగా వివరించారు.

కళాశాల ప్రిన్సిపల్ ప్రొఫెసర్ సి వి నర్సింహులు, బయోటెక్నాలజీ విభాగాధిపతి డాక్టర్ అశుతౌష్ పాండే, బిబిసిసి ఫ్యాకల్టీ కో-ఆర్డినేటర్ డాక్టర్ జి విజయ లక్ష్మి, సిబిఐటి ఎఫ్ఎబిఎ కోఆర్డినేటర్లు డాక్టర్ సంజీబ్, బిబిసిసి క్లబ్ విద్యార్థి అధ్యక్షుడు చరణ్ ప్రెసిడెంట్లు అతిథులను సత్కరించారు. لفت ورون که مشرق المعنی الم معنی المعنی معنی المعنی معنی المعنی المعن

సమకాలిన బయోటెక్నాలజికల్ ట్రెండ్స్ మీద ఉపన్యాసం



ట్రజాబిగికిడి.(ఎల్బీనగర్): సిబిజిటి యొక్క బయో ఇంజిసీరింగ్ బయోటెక్నాలజీ క్లబ్, మరియు బయోటెక్నాలజీ బిఖాగం సంయుక్తంగా "సమకాలీన బయోటెక్నాలజీకల్ (టెంద్స్)" అనే అంశంపై అతిధి ఉపన్యాసం బిర్పహించింది. ఈ సందర్భంగా ఎఫ్ఎబిఎ చీఫ్ ఆహారేటింగ్ అస్తీసార్ దాక్టర్ జగదీష్ గాండ్ల అరోగ్య తాస్రాలలో (పస్తుత (పపంచ గతిశీలతను వన్ హెల్త్ (పోగామ్ యొక్క పరుగుతున్న (పోముఖ్యతను గురుంచి బివరించారు. . మూనపూట,జంతువులు పర్యావరణం రోసం అరోగ్య సంరక్షణను సమానంగా పర్యవేట్లించడాటికి (పయత్నిస్తున్నారు.అని అవ్పారు.(టి(స్ప్, కృతిమ పేధస్కు,బిగ్ దేటా, మైట్రోహ్హయిడిక్స్ మల్టియోబిట్స్ వంటి అత్యాపునిక సాంకేతికతలపై బివరంగా పెప్పారు.ఈ సాంకేతికతలు జీవతాగ్రం అరోగ్య శాగిస్తాలలో పరితోధన (పయత్నాలను ఏ బిధంగా పెంపొందించగలవని, స్థిరమైన భబిష్యత్రకు మార్గం సుగమం చేస్తాయనే బిషయాబ్ని అయన బిఫలంగా బివరించారు.కళాతాల (పిబ్బిపర్ పూషాసర్ సి బి నర్సింహులు, ఐయోటెక్నాలజీ బిఫాగాధిపతి డాక్టర్ అరతాష్ ఫాంచే,బిబిసిసి ఫ్యాల్ఫీ కో-అర్దిచేటర్ దాక్టర్ జి బిజయ లక్ర్మీనీబిబి విఫ్ఎబిబ్ కో అర్ధినేటర్లు, డాక్టర్ సంజీజీవిబిసిసి క్లబ్ బిద్యార్థి అధ్యక్రషం చరత్ (పెసిడెంట్రం) అతిధులను సత్యరించారు.

BIOENGINEERING AND BIOTECHNOLOGY CLUB





సమకాలీన బయోటెక్నాలజికల్ ట్రెండ్స్ మీద ఉపన్యాసం

BIOE

ອຮູດ ສະດ, ລູກດ່ວາຍາດົ, ອຣີ່ງູ່ຍຸດົ 11 : ກໍມິຄຄໍ ດີມາຮັງ ສດສະ ຊວສສໍ່ປິວກັ మరియు ఐయోటెక్నాలజీ విభాగం మరియు ఐయోటెక్నాలజీ క్లబ్, సంయుక్తంగా "సమకాలీన బయోటెక్నాలజికల్ (టెండ్స్" అనే అంశంపై అతిధి ఉపన్నాసం నిర్వహించింది . ఈ సందర్భంగా ఎఫ్ఎబిఎ బీఫ్ అపరేటింగ్ ఆఫీసర్ డాక్టర్ జగదీష్ గాంద్ల ఆరోగ్య శాస్త్రాలలో (ప్రస్తుత ట్రపంచ గతిశీలతను మరియు వన్ హెల్త్ ట్రోగ్రామ్ యొక్క పెరుగుతున్న ప్రాముఖ్యతను గురుంచి వివరించారు . 👘 మానవులు, జంతువులు మరియు పర్యావరణం కోసం ఆరోగ్య సంరక్షణను సమానంగా పర్యవేక్షించదానికి ప్రయత్నిస్తున్నారు అని అన్నారు . క్రిస్ట్, కృతిమ మేధస్సు , బిగ్ దేటా, మైక్రాఫ్లాయిడిక్స్ మరియు మల్లియోమిక్స్ వంటి అత్యాధునిక సాంకేతికతలపై వివరంగా చెప్పారు. ఈ సాంకేతికతలు జీవశాస్త్రం మరియు ఆరోగ్య శాస్త్రాలలో పరిశోధన ప్రయత్నాలను ఏ విధంగా పెంపొందించగలవని, స్థిరమైన భవిష్యత్తుకు మార్గం సుగమం చేస్తాయనే విషయాన్ని ఆయన విపులంగా వివరించారు. కళాశాల (ప్రిన్నిపల్ ప్రొఫెసర్ సి వి నర్సింహులు, బయోటెక్నాలజీ విభాగాధిపతి దాక్టర్ అశుతౌష్ పాందే, బిబిసిసి ఫ్యాకల్లీ కో-ఆర్షినేటర్ డాక్టర్ జి విజయ లక్ష్మి, సిబిఐబి ఎఫ్ఎబిఎ కాఆర్షినేటర్లు దాక్టర్ సంజీబ్, బిబిసిసి క్లబ్ విద్యార్థి అధ్యక్షుడు చరణ్ (పెసిదెంట్లు అతిథులను సత్తరించారు.

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GUEST LECTURE by Dr. Jagadeesh Gandla, COO of FABA, Hyderabad, TS, India on the topic of "CURRENT TRENDS IN BIOTECHNOLOGY"

At

Chaitanya Bharathi Institute of Technology, CBIT, Hyderabad-500075, TS, India Date: 11th October 2023, Wednesday, 3:00 PM to 4:00 PM Venue: N-Block Seminar Hall Organized by: Department of Biotechnology, And





Detailed Program of Dr. Jagadeesh Gandla on 11.10.2023									
S. No.	Time	Activity	Persons to be	Mobile No.					
1	2.30 p.m.	Welcome of Dr. Jagadeesh Gandla at the Entrance of Main Block near the Principal's office	All BBCC Core Members of the Biotechnology	+91-9177491458 (Charan) +91-7995000772 (Divyamshu)					
2	2.30 p.m2.50 p.m.	A short meeting of Dr. Jagadeesh Gandla with Faculty and visit to Biotechnology Blocks	All Faculty members of Biotechnology	+91-8979033584 +91-9849831044 +91-9908994251					
3	2.50 p.m2.55	Escorting the Guest to N-Block Seminar Hall	BBCC Student Members	+91-9963710844					
4	2.55 p.m3.00	Guest takes a seat at Dias of N-B	lock Seminar Hall	All faculty and staff of Biotechnology and designated					
5	3.00 p.m 3.05	Welcome of the guest and	d Bouquet	students					
6	3.05 p.m 3.40 p.m.	Lecture by the gu	Lecture by the guest						
7	3.40 p.m. – 3.50 pm	Q&A Session							
8	4.00 p.m4.05 p.m.	Presentation of Memento and	Vote of thanks						
9	4:05 p.m.	Guest Departure	Dr. Sanjeeb Kumar Mandal	+91-9344449074					

16.2023





29th January – 02nd February 2024

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

years

		Schedule				
Date	Timings	Session-1 (10.00 to 12.00 hrs)	Session - II (14:00 hrs to 15:30 hrs)			
		Introducing Guests by Co-ordinators	IBB. An Oromian			
		FDP-Setting Context by	IF K- All Overview			
	ssion	Prof. C. V. Narasimhulu, Principal, CBIT, Hyderabad, India				
4	al Se	Address by FDP Coordinator				
01/202	laugur	Prof. P. Narahari Sastry, ECE, CBIT	Prof. N. V. Srinivasulu			
29/	-	Address by Chief Guest	Mechanical Engg. Department			
		Sri Adiki Srinivas				
		Sr. Customer Delivery Architect,				
		AWS, USA				
24	Timings	Session-1 (10.30 to 12.00 hrs)	Session - II (14:00 hrs to 15:30 hrs)			
/01/20	Торіс	ML Model Life Cycle	Patent filing and Procedure			
30	D	Sri Adiki Srinivas Sr. Customer Delivery Architect.	Prof. C. K. Rao Retd. DGM			
	Resource person	AWS, USA	BHEL			
24	Торіс	Advances in AI	Pattern Recognition techniques applied to			
1/20			Parata com construction generation			
31/	D	Prof. Siba Kumar Udgata	Prof. P. Narahari Sastry,			
	Resource person	University of Hyderabad	ECE, CBIT			
	Торіс	Pharma Research Content Management	Enhancing awareness about Intellectual property			
2024		through advanced A1 and ML/MLM tools.	rights (IPR) for safeguarding innovative ideas and products			
1/2/2						
	Resource person	Dr. K. Vally Maya	Prof. Umakanta Chaudhury			
		Associate Director, CTS, Hyderabad	Advisor (i&i), CBIT			
	Торіс	Copyrights' in IPR and its protection	Address by Guest of Honour:			
			(Research Opportunities for AI / ML)			
		Prof. N. V. Srinivasulu	Prof. T. V. Rajini kanth			
	Resource person	Mechanical Engg. Department	HOD (AI&ML)-SNIST-Hyderabad.			
		CIDIT				
		CBII				
2/2024	aion 30	CBIT Feedback Report by Pro	f. N.V. Srinivasulu			
2/2/2024	ry Session 1 to 4:30	CBIT Feedback Report by Pro FDF Report and analysis by	f. N.V. Srinivasulu Prof. P. Narahari Sastry.			
2/2/2024	dictory Session 0 PM to 4:30	CBIT Feedback Report by Pro FDF Report and analysis by Address by Prof. C.V. Nara	of. N.V. Srinivasulu Prof. P. Narahari Sastry. Isimhulu, Principal CBIT			
2/2/2024	Valedictory Session (3:30 PM to 4:30 PM)	CBIT Feedback Report by Pro FDF Report and analysis by Address by Prof. C.V. Nara Vote of Thanks by Dr	of. N.V. Srinivasulu Prof. P. Narahari Sastry. Isimhulu, Principal CBIT			

A Three Day MATLAB Training Program

on

"Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes"

3rd - 5th July, 2023

Time Table

	10.00 AM to 1.00 PM	01.00 PM-02.00 PM	02.00 PM - 04.30 PM
03-07-23 Day-1	 Dynamic System Modeling with Simulink: Dynamic System Modeling with Simulink Importance of Auto Solver Embedding MATLAB Function in to Simulink Model Running Simulink Model from MATLAB Accessing MATLAB Workspace by Simulink 		 HDL Code Generation from MATLAB and Simulink: Introduction to HDL Coder Toolbox HDL Code Generation from MATLAB Generate HDL Code from Simulink Model Create HDL-Compatible Simulink Model HDL Code Generation Workflow HDL Code Generation for Low File
04-07-23 Day-2	 Medical Imaging with MATLAB: Introduction to Medical Imaging Importing, pre-processing and analyzing Radiology and other Images Label 3-D Medical Image using Medical Image Labeler Neural Network Concepts for Medical Imaging 	Lunch Break	 ADL Code Generation for Image Enhancement Optimization with MATLAB: Introduction to Optimization Toolbox Optimization Theory Overview Introduction to Global Optimization Toolbox Comparison between Optimization & Global Optimization Toolbox
05-07-23 Day-3	 Electric Vehicles with MATLAB and Simulink: Introduction to EV with MATLAB and Simulink Modeling Generic Motor for EV Modeling BLDC Motor for EV Interfacing Hardware to MATLAB Simulink Collecting Sensor Data to Control Electrical Vehicle 		 Machine Learning and Deep Learning with MATLAB Data Collection and Datasets used for Machine Learning Feature Extraction in Signals Supervised Learning and Unsupervised Learning Application of Machine Learning in Digital Signals Application of Machine Learning in Digital Images Challenges in Feature Extraction in Machine Learning Architecture of Convolution Neural Network(CNN) CNN Design and Training with Deep Network Designer App Comparison between ML and DL Applications of Deep Learning

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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)

Gandipet, Hyderabad - 500 075

Three days MATLAB Training Program on (3rd - 5 th July, 2023)

Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxe

SI.No	Faculty Name	Department	Designation	Email ID	Phone No.
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2	Mrs. V Swathi Teiah	AIDS	Assistant Professor	swathitejahy_aids@cbit.ac.in	9010703203
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3	Dr. Runam Sinha	Chemical	Assistant Professor	rupamsinha_chem@cbit.ac.in	8473935154
4	Dr. Kupani Sinna	Mech	Assistant Professor	gurubrahmam_mech@cbit.ac.in	9491377882
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6	Ms. R.Navaneetha	Mech	Tech.Grd.II	nchandrasekhar_ntmech@cbit.ac.in	9182287145
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10	Dr. Angshuman Das	Civil	Assistant Professor	raghayaadityab civil@cbit.ac.in	9679609321
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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)

Gandipet, Hyderabad - 500 075

Three days MATLAB Training Program on (3rd - 5 th July, 2023)

imulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxe

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24	Dr. P.Ashok Kumar	ECE	Assistant Professor	ashokkumarp_ece@cbit.ac.in	7659857980
25	Dr. S.Siva Privanaka	ECE	Assistant Professor	sivapriyankas_ece@cbit.ac.in	7702229119
26	Dr. D. Bhasker	ECE	Assistant Professor	bhaskerd_ece@cbit.ac.in	9677240684
27	Ms. D.S.Madhuri	Mech	Assistant Professor	dsmadhuri_mech@cbit.ac.in	989953350
28	Dr. M.Mukunda Vani	Chemical	Professor, HOD	mukundavanim_chem@cbit.ac.in	9866002491

Report on

A Three Day MATLAB Training Program

on

"Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes"

3rd - 5th July, 2023

A Three-Day MATLAB Training Program on "Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes" had been organized by the departments of ECE and EEE at Chaitanya Bharathi Institute of Technology, Hyderabad, from 3rd to 5th July 2023.

The event had been graced by esteemed dignitaries, including Prof. C. V. Narasimhulu, the Chief Patron. Prof. D. Krishna Reddy, the Head of the ECE Department, and Prof. M. Balasubba Reddy, the Head of the EEE Department, had also contributed to the program's success as the Chief Advisors.

The coordination of the training program had been effectively managed by Dr. T. Aravinda Babu, an Assistant Professor in the ECE Department, and Dr. P. Vijay Babu, an Assistant Professor in the EEE Department.

During the Three-Day MATLAB Training Program, participants had been immersed in various cutting-edge technologies, acquiring hands-on experience in Simulink for dynamic system modeling, HDL code generation, medical imaging, optimization techniques, electric vehicle modeling, and the application of machine & deep learning toolboxes. Upon the program's conclusion, participants had been equipped with invaluable skills and knowledge, empowering them to tackle real-world engineering challenges with confidence and innovation.

The success of the training program had been attributed to the combined efforts of the organizers and the active participation of the participants, creating an enriching environment for skill development and knowledge sharing.

Overall, the Three-Day MATLAB Training Program had been a resounding success, leaving a lasting impact on the attendees and furthering their understanding and proficiency in MATLAB applications across various domains.

Preamble:

We warmly welcome you to our comprehensive training program, which encompassed Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes.

Throughout the program, participants gained hands-on experience and expertise in these cutting-edge technologies, enabling them to excel in diverse engineering applications. Our team of experienced instructors was dedicated to providing participants with the knowledge and skills needed to effectively tackle real-world challenges.

Whether attendees were seasoned professionals seeking to enhance their skillset or students eager to explore the exciting world of engineering, this program was thoughtfully designed to cater to their specific learning needs. They delved into the intricacies of Simulink for modeling and simulation, mastered the art of HDL code generation for hardware implementations, explored the fascinating realm of Medical Imaging for healthcare advancements, harnessed the power of Optimization techniques for system enhancement, dived into the promising domain of Electric Vehicles, and discovered the potential of Machine & Deep Learning Toolboxes for developing intelligent systems.

Throughout the journey, participants had access to cutting-edge tools, resources, and a collaborative learning environment that fostered innovation and creativity. Our commitment was to equip them with the knowledge and expertise to stand out in today's fast-paced technological landscape.

We are delighted to witness the transformation of those who joined us in this program, as they are now equipped with the skills and knowledge to shape a better, more technologically advanced future. We express our sincere gratitude for your active participation in this exciting learning adventure!

In view of the above, we are pleased to announce that we have successfully conducted a training program on Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes. The activities scheduled for the 3-day program are detailed below, and the timetable is enclosed at the end.

Day 1: (03-07-2023)

Slot 1: 10:00 AM to 1:00 PM

Dynamic System Modeling with Simulink:

- Dynamic System Modeling with Simulink
- Importance of Auto Solver
- Embedding MATLAB Function in to Simulink Model
- Running Simulink Model from MATLAB
- Accessing MATLAB Workspace by Simulink

Slot 2: 02:00 AM to 04:30 PM

HDL Code Generation from MATLAB and Simulink:

- Introduction to HDL Coder Toolbox
- HDL Code Generation from MATLAB
- Generate HDL Code from Simulink Model
- Create HDL-Compatible Simulink Model
- HDL Code Generation Workflow
- HDL Code Generation for Image Enhancement

Day 2: (04-07-2023)

Slot 1: 10:00 AM to 1:00 PM

Medical Imaging with MATLAB:

- Introduction to Medical Imaging
- Importing, pre-processing and analyzing Radiology and other Images

- Label 3-D Medical Image using Medical Image Labeler
- Neural Network Concepts for Medical Imaging

Slot 2: 02:00 AM to 04:30 PM

Optimization with MATLAB:

- Introduction to Optimization Toolbox
- Optimization Theory Overview
- Introduction to Global Optimization Toolbox
- Comparison between Optimization & Global Optimization Toolbox

Day 3: (05-07-2023)

Slot 1: 10:00 AM to 1:00 PM

Electric Vehicles with MATLAB and Simulink:

- Introduction to EV with MATLAB and Simulink
- Modeling Generic Motor for EV
- Modeling BLDC Motor for EV
- Interfacing Hardware to MATLAB Simulink
- Collecting Sensor Data to Control Electrical Vehicle

Slot 2: 02:00 AM to 04:30 PM

Machine Learning and Deep Learning with MATLAB

- Data Collection and Datasets used for Machine Learning
- Feature Extraction in Signals
- Supervised Learning and Unsupervised Learning
- Application of Machine Learning in Digital Signals
- Application of Machine Learning in Digital Images
- Challenges in Feature Extraction in Machine Learning
- Architecture of Convolution Neural Network (CNN)
- CNN Design and Training with Deep Network Designer App
- Comparison between ML and DL

Applications of Deep Learning

Participant Strength

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We are delighted to share that our Three-Day MATLAB Training Program successfully concluded with an impressive turnout of 35 participants from diverse departments, including EEE, ECE, BIO TECHNOLOGY, Mechanical, and Artificial Intelligence and Data Science, as well as Artificial Intelligence and Machine Learning (AI&ML).

Throughout the program, participants actively engaged in various hands-on sessions and interactive discussions, fostering a dynamic learning environment. Their enthusiasm and dedication resulted in exceptional outcomes, with each participant gaining valuable insights and practical skills in MATLAB and its applications.

We are proud of the accomplishments achieved during the training, which have equipped the participants with the tools to excel in their respective domains. The diverse backgrounds and expertise brought by the attendees further enriched the learning experience, creating a vibrant atmosphere for knowledge exchange and collaboration.

We extend our heartfelt gratitude to all the participants for their active participation and commitment to making this training program a resounding success. We are confident that the knowledge gained during these three days will prove invaluable in their academic and professional pursuits.

As we move forward, we look forward to organizing more such enriching programs and continuing to foster a spirit of exploration and innovation among our participants. Once again, thank you to everyone involved in making this training program a truly rewarding experience. Here's to a future filled with continued growth and success!

Speaker Profile:

Mr. J. Prem Kumar is a highly skilled and accomplished Product Manager for MathWorks Products at Capricot Technologies Private Limited. With a wealth of expertise in various fields, he has made significant contributions in Dynamic System Modeling, Embedded Systems, Robotics, Image Processing, Speech Processing, Deep Learning, and Computer Vision.

Having served in Capricot Technologies for over a decade, Mr. Kumar brings a deep understanding of the industry and its evolving trends. Prior to joining Capricot Technologies, he garnered valuable experience in the Semiconductor Manufacturing Industry, further enriching his knowledge in the tech domain.

Mr. Kumar's educational background boasts a master's degree in VLSI System Design, showcasing his proficiency in this specialized area. His strong foundation is further reinforced by a bachelor's degree in Electronics & Communication Engineering.

Presently, as the Product Manager in the MathWorks Education Solutions division at Capricot Technologies Pvt. Ltd., Mr. Kumar continues to lead with exceptional expertise and dedication. His passion for teaching and sharing knowledge is evident through his 10+ years of experience as a MATLAB Trainer within the organization.

Mr. Kumar's impressive profile and vast experience make him an exceptional speaker, and his contributions to the field of technology and education have left a lasting impact on both the industry and his peers. His valuable insights and extensive knowledge are sure to enrich any event or training session he graces with his presence.

Summary of Outcomes:

Participants in this comprehensive training program gained valuable knowledge and skills in various cutting-edge technologies. The program covered the following topics:

- Dynamic System Modeling with Simulink: Participants learned how to model dynamic systems using Simulink, the importance of auto solver, embedding MATLAB functions in Simulink models, running Simulink models from MATLAB, and accessing MATLAB workspace by Simulink.
- HDL Code Generation from MATLAB and Simulink: Participants were introduced to the HDL Coder Toolbox and learned to generate HDL code from MATLAB and Simulink models. They also created HDL-compatible Simulink models, explored the HDL code generation workflow, and applied HDL code generation for image enhancement.
- Medical Imaging with MATLAB: Participants gained insights into medical imaging, including importing, pre-processing, and analyzing radiology and other medical images. They learned to label 3-D medical images using the Medical Image Labeler and explored neural network concepts for medical imaging.
- Optimization with MATLAB: Participants were introduced to the Optimization Toolbox and learned about optimization theory. They also explored the Global Optimization Toolbox and compared its features with the standard Optimization Toolbox.
- Electric Vehicles with MATLAB and Simulink: Participants received an introduction to electric vehicles (EV) using MATLAB and Simulink. They learned to model a generic motor and a BLDC motor for EV applications. Additionally, they acquired skills in interfacing hardware with MATLAB Simulink and collecting sensor data for controlling electric vehicles.
- Machine Learning and Deep Learning with MATLAB: Participants delved into data collection and datasets used for machine learning. They learned about feature extraction in signals, supervised and unsupervised learning methods, and the application of machine learning in digital signals and images. The training covered challenges in feature extraction in machine learning, architecture of Convolutional Neural Networks (CNN), and designing and training CNNs using the Deep Network Designer App. Participants also explored the differences between machine learning and deep learning and discovered various applications of deep learning.

Overall, this training program empowered participants with a diverse skill set, enabling them to apply these technologies effectively in their respective fields and contribute to advancements in engineering and technology.



మ్యాట్ ల్యాబ్ లో ముగిసిన అధ్యాపకుల శిక్షణ

రాజేంద్రనార్ జాలై 7,గుఘా న్యూస్) గందిపేట మండలం లోని సిబీజల్ కళాశా నర్సింహంలు అధ్యక్షత వహించి ఈ బెక్నాలజీ తరంలో కళాశాల్తో నడిచే

లలో గత మూడూ రోజులగా నదుస్తున్న మ్యాట్ ల్యాట్ లో అధ్యాపకుల శిక్షణ అంతర్గత శిక్షణ కార్యక్రమాలు అధ్యాపకులు ఎంతో అవసరం అని రెలిపారు.

కార్యకమం ముగిసినది.ఈ మూడు రోజులు సిములంక్ హెచ్ఎల్ కోడ్ జనరేషన్ మెదికల్ ఇమేజింగ్ ఆఫ్రిమైజేషన్ ఎల్కరిక్ వెహికల్ మెషిస్ డీప్ లెర్మింగ్

టూల్జాక్స్లలో శిక్షణ జరిగినట్ల ఈ టాల్లుకాల్లలలో శర్జణ అంగానిట్లు ఈ కార్మకమ నిర్వాహకుడు డా.టి.అరవింద బాబు తెలిపారు.మొదటి రోజు సిములంక్లో డైనమిక్ సిస్టమ్ మొదలింగ్ రెండవ రోజు మ్యాట్ ల్యాబ్ లో మెడికల్ ఇమేజింగ్ ఆస్టి మైజింగ్ మూడవ రోజు మ్యాట్ ల్యాబ్ మాటుద్దే చారిన ఎంటిక్ దాపాదాలు సిములంక్తో కూడిన ఎలక్టిక్ వాహనాలు మెషిస్ లెర్నింగ్ డీప్ లెర్నింగ్ మీద శిక్షణ ఇచ్చినట్టు డాక్టర్ పి.విజయ బాబు శెలపారు. కాభికాట్ చిక్నాలజీస్ ప్రైవేట్ లమిబెడ్ లో ప్రొడక్ట్ మేనేజర్ జె.ప్రేమ్ కుమార్ ఈ కార్యకమానికి రిసోర్స్ పర్సన్ గా వృహరించనట్ల అరవింద బాబు తెలిపారు. ముగింపు కార్యక్రమానికి కళాశాల టన్నిపాల్ ప్రొఫెసర్ సి.వి.



สมอบล

kalam nigha 08-07-2023 Page 4 08 Jul 2023 https://epaper.kalamnigha.in/clip/19912

Sd/

Dr. P. Vijay Babu Assistant Professor, Department of EEE

Department of EEE, CBIT

Short Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" 22nd ,29th of July 2023, 12th ,19th ,26th of August 2023

Training Course Content -Placement Oriented Training on courses like

Electrical Circuits
 Electrical Measurements & Instrumentation
 Analog Electronic Circuits

Digital Electronic Circuits

- Power Systems.
- Power Electronics

Electrical Machines

Control Systems

Signals and Systems

\$

Basic Programming Tools required for Electrical Engineering

4

-Certificate will be provided through email only.



Organizing Committee

Chairperson Prof. C. V. NARASIMHULU Principal, CBIT

Convener Dr. M. Balasubbareddy Professor & HOD/EEE

Coordinators Dr. M. Balasubbareddy Professor & HOD/EEE Mobile: +91-9885308964 Dr. P. Kowstubha Associate Professor, Dept. of EEE Mobile: +91-9676402000 Dr. P. Vijay Babu

Assistant Professor, Dept. of EEE Mobile: +91- 70523 06434

Resource Persons

Expertized faculty from the department of EEE & ECE CBIT

For further details please contact: E-mail: <u>kowstubha_eee@cbit.ac.in</u> <u>vijaybabup_eee@cbit.ac.in</u>



Department of Electrical and Electronics Engineering

Short Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" 22nd ,29th of July 2023 and 12th ,19th ,26th of August 2023



Chaitanya Bharathi Institute of Technology (Autonomous under UGC) Affiliated to Osmania University Kokapet (Village), Gandipet, Hyderabad – 500075 Telangana State, India. www.cbit.ac.in

Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad, The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 43 years by producing about 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe, CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC-UGC with 'A++' Grade and various programs are accredited by NBA -AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

About Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and was accredited 5 times i.e., in the years 2004, 2008, 2013, 2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The department has received grants worth around ₹40 lakhs from AICTE under RPS, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹24 lakhs in collaboration with Foreign Universities in the domain of Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of a Ph.D. degree.

About Short-Term Course (STC)

Department of EEE, CBIT is organizing a one-week Short Time Training Program on (STC) on "Placement Oriented Electrical Engineering Training (POET)" through offline mode on 22nd ,29th, of July 2023 and 12th ,19th ,26th of August 2023. It is a great opportunity for students to rein face subject knowledge and enhance our technical skills required to succeed in the competitive job market as well as crack the competitive exams.

Benefits of the Course:

Preparation for ensuring core placements and competitive exam to the students of EEE/ECE.

Certificate of Participation by the depart of EEE, CBIT

Eligibility Criterion:

Students of B.E / M.E students of the stream EEE, ECE are eligible to apply for this STTP.



NO REGISTRATION FEE

REGISTRATION LINK <u>https://forms.gle/rYDCo2yUnSjbDUCt9</u> Registrations will be accepted on or before 21st July 2023.

Resource Persons

Expertized faculty from the department of EEE, CBIT

EEE department Front View



R&E Hub Top View

Report on

Short Term Training Program

n

"Placement Oriented Electrical Engineering Training (POET)" 26th, 27th of July 2023 and 2nd, 3rd and 9th of August 2023

The Department of Electrical and Electronics Engineering (EEE) at Chaitanya Bharathi Institute of Technology (A), Hyderabad, successfully conducted a Five-Day Short-Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" from July 26th to 27th, 2023, and on August 2nd, 3rd, and 9th, 2023.

The efficient coordination of this training program was overseen by Prof. M. Balasubba The efficient coordination of this training program was overseen by Prof. M. Balasubba Reddy, Head of the EEE Department, along with the invaluable contributions of Dr. P. Rowstubha, Associate Professor, and Dr. P. Vijay Babu, Assistant Professor in the department of EEE.

Throughout the Five-Day Short-Term Training Program, participants were fully immersed in subject knowledge enhancement and the development of technical skills necessary for success in the competitive job market and competitive exams.

In conclusion, the Five-Day Short-Term Training Program proved to be a resounding success, leaving a lasting impact on the attendees and significantly advancing their understanding and proficiency in all subjects within the EEE department.

Preamble:

Welcome to our comprehensive training program in the Electrical and Electronics Engineering (EEE) department. We extend a warm invitation to all participants, and we are excited to embark on this educational journey together. Our program encompasses a wide spectrum of subjects vital to the field of EEE, including Electrical Circuits, Analog Electronic Circuits, Power Electronics, Power Systems, Signals and Systems, Electrical Measurements & Instrumentation, Digital Electronic Circuits, Control Systems, Electrical Machines, and Introductory Software Tools for Electrical Engineering.

This program provides a remarkable opportunity for students to immerse themselves in subject knowledge and enhance their technical skills. We recognize the importance of staying competitive in today's job market, and this training program is designed to equip you with the expertise required for success. Whether your goal is to excel in your career or to prepare for competitive examinations like GATE and PSUs, our program is tailored to help you achieve your aspirations.

We look forward to a fruitful and enriching experience as we delve into the world of Electrical and Electronics Engineering. Together, we will explore, learn, and grow, ensuring a brighter future for all participants.

Participant Strength

We are thrilled to announce the successful conclusion of our Five-Day Short-Term Training Program on "Placement Oriented Electrical Engineering Training (POET)," which witnessed an outstanding turnout of 76 enthusiastic participants hailing from the EEE department. This substantial participation underscores the program's relevance and the eagerness of individuals to enhance their knowledge and skills in the field of Electrical Engineering. We are proud to have provided a valuable learning experience for such a dedicated group of participants, and we look forward to witnessing their continued growth and success in their academic and professional journeys.

Speaker Profile:

S.No	Course	Speaker with Designation
1.	Electrical Circuits	Dr. T. Murali Krishna, Assoc. Professor, Dept. of EEE, CBIT(A)
2.	Power Electronics	Prof. M. Balasubbareddy, Head, Dept. of EEE, CBIT(A)
3.	Signals and Systems	Mr. D. Harsha, Assist. Professor, Dept. of EEE, CBIT(A)
4.	Digital Electronic Circuits	Mr. Mr. C. Harish, Assist. Professor, Dept. of EEE, CBIT(A)
5.	Electrical Machines	Mr. N. Santosh Kumar, Assist. Professor, Dept. of EEE, CBIT(A) Mr. D. Hemeshwarchary, Assist. Professor, Dept. of EEE, CBIT(A)
6.	Analog Electronic Circuits	Dr. P. Kowstubha, Assoc. Professor, Dept. of EEE, CBIT(A)
7.	Power Systems	Dr. P. Vijay Babu, Assist. Professor, Dept. of EEE, CBIT(A)
8.	Electrical Measurements & Instrumentation	Dr. Madhulika Das, Assist. Professor, Dept. of EEE,
9.	Control Systems	Dr. K. Sudershan Reddy, Assist. Professor, Dept. of EEE,
10.	Introductory Software Tools for Electrical Engineering	Dr. P. Vijay Babu, Assist. Professor, Dept. of EEE, CBIT(A)

These esteemed speakers from bring a wealth of knowledge and expertise to their respective subjects, ensuring that participants receive comprehensive and high-quality training in each area of Electrical Engineering.

Summary:

Certainly, here's a comprehensive summary of the Five-Day Short-Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" that took place at Chaitanya Bharathi Institute of Technology, Hyderabad, from July 26th to 27th, 2023, and August 2nd, 3rd, and 9th, 2023.

Introduction: The Department of Electrical and Electronics Engineering (EEE) at Chaitanya Bharathi Institute of Technology, Hyderabad, organized a transformative Five-Day Short-Term Training Program called "Placement Oriented Electrical Engineering Training (POET)." This program aimed to equip participants with in-depth knowledge and practical skills in various facets of electrical engineering.

Participant Turnout: The program saw an impressive turnout of 76 participants from the EEE departments, highlighting the strong interest and commitment of individuals in enhancing their understanding and proficiency in electrical engineering.

Program Structure: The training program was thoughtfully structured to cover a wide range of essential subjects in electrical engineering. Each subject was expertly handled by accomplished speakers who shared their expertise and insights with the participants.

Subjects and Speakers:

- Electrical Circuits (Dr. T. Murali Krishna): Dr. T. Murali Krishna delved into the fundamentals of electrical circuits, providing a strong foundation for participants to build upon.
- Power Electronics (Dr. M. Balasubba Reddy): Dr. M. Balasubba Reddy explored the intricacies of power electronics, a crucial field in modern electrical engineering.
- Signals and Systems (Mr. D. Harsha): Mr. D. Harsha guided participants through the realm of signals and systems, essential for understanding the behavior of electrical systems.
- Digital Electronic Circuits (Mr. C. Harish): Mr. C. Harish took participants on a journey into digital electronic circuits, an area critical for modern electronics.
- Electrical Machines I (Mr. D. Hemeshwarchary): Mr. D. Hemeshwarchary delved into electrical machines, offering insights into their operation and applications.
- Electrical Machines II (Mr. N. Santosh Kumar): Mr. N. Santosh Kumar delved into electrical machines, offering insights into their operation and applications.
- Analog Electronic Circuits (Dr. P. Kowstubha): Dr. P. Kowstubha covered analog electronic circuits, a fundamental building block of electronic systems.
- Power Systems (Dr. P. Vijay Babu): Dr. P. Vijay Babu explored power systems, an area of paramount importance for the efficient distribution of electrical energy.
- Electrical Measurements & Instrumentation (Dr. Madhulika Das): Dr. Madhulika Das discussed electrical measurements and instrumentation, crucial for precision in electrical engineering.
- Control Systems (Dr. K. Sudershan Reddy): Dr. K. Sudershan Reddy delved into control systems, a vital field for regulating and automating electrical processes.

 Introductory Software Tools for Electrical Engineering (Dr. P. Vijay Babu): Dr. P. Vijay Babu introduced participants to software tools essential for electrical engineering applications.

Program Highlights:

Expert Guidance: The program benefited from the guidance of experienced and knowledgeable speakers, each recognized for their expertise in their respective fields.

Comprehensive Coverage: The program provided comprehensive coverage of essential subjects in electrical engineering, ensuring that participants gained a well-rounded understanding of the discipline.

Interactive Sessions: Participants engaged in interactive sessions, fostering a dynamic learning environment where they could ask questions and seek clarifications.

Practical Exposure: In addition to theoretical knowledge, participants received practical exposure to various concepts and tools, enhancing their hands-on skills.

Networking Opportunities: The program also offered valuable networking opportunities, allowing participants to connect with their peers and experts in the field.

Placement Orientation: True to its name, the program was oriented towards preparing participants for placement opportunities. The knowledge and skills gained were directly applicable to real-world job requirements.

Coordinator and Advisors:

- Prof. M. Balasubba Reddy: Head of the EEE Department, played a pivotal role in coordinating the program, ensuring its smooth execution.
- Dr. P. Kowstubha: Associate Professor in the department of EEE, contributed her expertise to the program's success.
- Dr. P. Vijay Babu: Assistant Professor in the department of EEE, played a crucial role in both coordination and instruction.

Program Impact:

The Five-Day Short-Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" left a significant impact on the participants. Here are some key takeaways:

Enhanced Knowledge: Participants gained in-depth knowledge in various electrical engineering subjects, providing them with a solid academic foundation.

Improved Practical Skills: The program emphasized practical learning, enabling participants to apply their knowledge to real-world scenarios.

Competitive Edge: The training program equipped participants with the skills and knowledge required to excel in a competitive job market.

Preparation for Competitive Exams: The training program was not just about job placement but also preparing participants for competitive examinations like GATE and PSUs.

Networking: Participants had the opportunity to network with peers and experts, fostering valuable connections for their future careers.

Increased Confidence: Armed with newfound knowledge and skills, participants left the program with increased confidence in their abilities as electrical engineers.

Conclusion:

In conclusion, the Five-Day Short-Term Training Program on "Placement Oriented Electrical Engineering Training (POET)" at Chaitanya Bharathi Institute of Technology, Hyderabad, was a resounding success. It provided a platform for participants to enhance their knowledge, develop practical skills, and prepare themselves for a successful career in the field of electrical engineering. The dedication of the organizers, the expertise of the speakers, and the enthusiasm of the participants came together to create a transformative learning experience that will have a lasting impact on all involved. As participants move forward in their academic and professional journeys, they carry with them the valuable insights and skills gained from this program, poised for success in the dynamic field of electrical engineering.





Circular

Department of EEE, CBIT is organizing a one-week Short Term Training Program on (STC) on "**Placement Oriented Electrical Engineering Training (POET)**" through offline mode on 26th, 27th, of July 2023 and 2nd, 3rd and 9th of August 2023. It is a great opportunity for students to rein face subject knowledge and enhance our technical skills required to succeed in the competitive job market as well as crack the competitive exams.

Benefits of the Course:

Preparation for ensuring core placements and competitive exam to the students of EEE/ECE.

Certificate of Participation by the depart of EEE, CBIT

Recourse Persons:

Expertized faculty from the department of EEE& ECE, CBIT

Eligibility Criterion:

Students of B.E / M.E students of the stream **EEE**, **ECE** are eligible to apply for this STTP.

Registration: Free Registration

For any clarification, contact

Dr. M. Balasubbareddy- Coordinator

Mob. No: 9885308964

Dr. P. Kowstubha- Coordinator

Mob. No: 9676402000

Dr. P. Vijay Babu- Coordinator Mob. No: 70523 06434

Tentative Schedule

Day 26/07/2023 27/07/2023 02/08/2023 03/08/2023	Session I 11:15-12:45 pm Electrical Circuits (Dr. T. Murali Krishna) Power Electronics (Dr. M. Balasubba Reddy) Signals and Systems (Mr. D. Harsha) Digital Electronic Circuits (Mr. C. Harish) Electrical Machines (Mr. D.	L U N C H B R E A K	Session II 1:30-3:00 pm Electrical Circuits (Dr. T. Murali Krishna) Power Electronics (Dr. M. Balasubba Reddy) Signals and Systems (Mr. D. Harsha) Digital Electronic Circuits (Mr. C. Harish) Electrical Machines (Mr. N. Santhosh	TEABREAK	Session III 3:10-4:40 pm Analog Electronic Circuits (Dr. P. Kowstubha) Power Systems (Dr. P. Vijay Babu) Electrical Measurements & Instrumentation (Dr. Madhulika Das) Control Systems (Dr. K. Sudershan Reddy) Introductory software tools for Electrical Engineering	TEABREAK	Session IV 4:50-6:20 pm Analog Electronic Circuits (Dr. P. Kowstubha) Power Systems (Dr. P. Vijay Babu) Electrical Measurements & Instrumentation (Dr. Madhulika Das) Control Systems (Dr. K. Sudershan Reddy) Test followed by Valediction/Feedback
09/08/2023	Machines (Mr. D. Hemeshwarchary)		Machines (Mr. N. Santhosh Kumar)		for Electrical Engineering (Dr. P. Vijay Babu)		Test followed by Valediction/Feedback









Department of EEE, CBIT

National level ICT based Online Short Term Course (STC)

on "Sustainable Development Goals: Challenges and Opportunities" (21st – 25th August 2023) (ICT-86)

Training Course Contents:

- Sustainable Development Goals An Overview
 Achieving Net Zero Energy and Water for Sustainability
- · Nano-materials for Cleaner Environment
- Green Energy Resources
- · Green Buildings
- · Smart Grid for Sustainable Development
- Air Pollution and its Control
- Carbon Capture and Utilisation into Value
- added Products

 Green Materials for Sustainable Development
- Electric Vehicle
- Sustainable and Innovative Construction
 Practices
- Cleaner Technologies for Industrial Sector
- Soil Health Management
- Millets for Food and Environment Sustainability



Organizing Committee

Chairperson Prof. C. V. NARASIMHULU Principal, CBIT

Coordinator

Dr. M. Balasubbareddy Professor, Dept. of EEE Mobile: +91-9885308964 E-Mail: balasubbareddy_eee@cbit.ac.in

Co-coordinator

Dr. Ch. Venkata Krishna Reddy Assistant Professor, Dept. of EEE Mobile: +91-9948283847 E-Mail: chkrishnareddy_eee@cbit.ac.in

Experts

- Prof. Poonam Syal, NITTTR-Chandigarh
 Dr. Shivraj Dhaka, Sr. Counsellor, CII-Indian Green Building Council
- Prof. Sandeep Kumar, PEC , Chandigarh
- Er. Rakesh Bhatia, Sr. Vice President, Eco first Services Ltd., Mumbai
- Prof. Lini Mathew, NITTTR, Chandigarh
- Prof. SC Jain, Former Dean & Chairman, Dept. of Chemical Eng. & Tech. PU, Chandigarh
- Dr. Sonal ,MNIT Jaipur
- Prof. Sanjay Sharma NITTTR, Chandigarh
- Dr. Avik Bhattacharya, IIT, Roorkee
- Dr. Amit Goyal, NITTTR, Chandigarh
- Er. Pritpal Singh, Pb State Council for Science & Tech, Chandigarh
- Dr. S Pal, Sr. Scientist, ICAR- IISWCRC

Department of Electrical and Electronics Engineering



In Association with NITTTR- Chandigarh

National level ICT based Online Short Term Course (STC) on

"Sustainable Development Goals: Challenges and Opportunities" (21st – 25th August 2023) (ICT-86)



Chaitanya Bharathi Institute of Technology (Autonomous under UGC) Affiliated to Osmania University Kokapet (Village), Gandipet, Hyderabad – 500075 Telangana State, India. www.cbit.ac.in

Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 43 years by producing about 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC - UGC with 'A' Grade and various programs are accredited by NBA - AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

About Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and was accredited 5 times i.e. in the years 2004, 2008, 2013,2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The department has received grants worth around ₹40 lakhs from AICTE under RPS, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹24 lakhs in collaboration with Foreign Universities in the domain of Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of a Ph.D. degree.

About Short-Term Course (STC)

The Sustainable Development Goals (SDGs), established by the United Nations in 2015, are a collection of 17 interconnected goals designed to address global challenges and achieve a better and more sustainable future by 2030. These goals encompass a wide range of issues, including poverty, inequality, health, education, climate change, environmental degradation, peace, and justice. By addressing these challenges and leveraging the opportunities, the global community can make significant strides toward achieving the Sustainable Development Goals and creating a more sustainable and equitable world for all.

For further details please contact:

balasubbareddy_eee@cbit.ac.in chkrishnareddy_eee@cbit.ac.in



STC Registration:



Resource Persons

Resource Persons will be from Renowned Institutions and Industries like the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh. Prof. Poonam Syal, NITTTR, Chandigarh, Dr. Shivraj Dhaka, Sr. Counsellor, CII-Indian Green Building Council, Prof. Sandeep Kumar, PEC, Chandigarh, Er. Rakesh Bhatia, Sr. Vice President, Ecofirst Services Ltd., Mumbai, Prof. Lini Mathew, NITTTR, Chandigarh, Prof. SC Jain, Dept. of Chemical Engg. & Tech. PU, Chd





R&E Hub Top View

National Institute of Technical Teachers Training and Research, Chandigarh Electrical Engineering Department STC on "Sustainable Development Goals: Challenges and Opportunities" 21/8/2023 to 25/8/2023 (O.Plan No. ICT-86)

TIME-TABLE

DAY/DATE	Session - 1 10 AM to 11 30 AM	Session - 2 11 30 AM to 1 PM	Session - 3 2 30 PM to 4 PM
Monday 21/8/2023	Sustainable Development Goals - An Overview (Prof. Poonam Syal)	Achieving Net Zero Energy and Water for Sustainability (Dr. Shivraj Dhaka, Sr. Counsellor, CII-Indian Green Building Council)	Nano-materials for Cleaner Environment (Prof. Sandeep Kumar, PEC , Chandigarh)
Tuesday 22/8/2023	Green Energy Resources (Prof. Poonam Syal)	Green Buildings (Er. Rakesh Bhatia, Sr. Vice President, Ecofirst Services Ltd., Mumbai)	Smart Grid for Sustainable Development (Prof. Lini Mathew, NITTTR, Chandigarh)
Wednesday 23/8/2023	Air Pollution and its Control (Prof. SC Jain, Former Dean & Chairman, Deptt. of Chemical Engg. & Tech. PU, Chd)	Carbon Capture and Utilisation into Value added Products (Dr. Sonal, MNIT Jaipur)	Green Materials for Sustainable Development (Prof. Sanjay Sharma NITTTR, Chd)
Thursday 24/8/2023	Electric Vehicle (Dr. Avik Bhattacharya IIT, Roorkee)	Sustainable and Innovative Construction Practices (Dr. Amit Goyal, NITTTR, Chandigarh)	Cleaner Technologies for Industrial Sector (Er. Pritpal Singh, Addnl Director, Pb State Council for Science & Tech., Chd)
Friday 25/8/2023	Soil Health Management (Dr. S Pal, Sr. Scientist, ICAR- IISWCRC)	Millets for Food and Environment Sustainability (Prof. Poonam Syal)	Course feedback and Valediction (Prof. Poonam Syal)

Repot on Sustainable Development Goals (SDGs)

The **Sustainable Development Goals (SDGs)** are a set of **17 global goals** adopted by all United Nations Member States in **2015** as part of the **2030 Agenda for Sustainable Development**. These goals provide a shared blueprint for peace, prosperity, and the protection of the planet. The SDGs aim to address the most pressing challenges facing the world, including poverty, inequality, environmental degradation, and climate change, with an overarching goal to leave no one behind.

The SDGs build upon decades of work by the **United Nations** and other international organizations, integrating social, environmental, and economic sustainability. Each goal has specific targets to be achieved over the next 15 years, promoting the idea of a **holistic approach to development**.

The 17 Sustainable Development Goals

1. No Poverty

- End poverty in all its forms everywhere.
- Focuses on eradicating extreme poverty, ensuring equal access to resources and opportunities for all, and addressing issues like social protection, job creation, and inclusive growth.

2. Zero Hunger

- End hunger, achieve food security and improved nutrition, and promote sustainable agriculture.
- Aims to eliminate malnutrition, promote food systems that are resilient, and ensure access to nutritious food for all people, particularly in vulnerable populations.

3. Good Health and Well-being

- Ensure healthy lives and promote well-being for all at all ages.
- This goal focuses on reducing maternal mortality, ending preventable deaths of children, ensuring access to healthcare, and combating diseases like HIV/AIDS and malaria.

4. Quality Education

- Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.
- Targets access to education, improving literacy rates, and providing equal opportunities for education, particularly for vulnerable groups.

5. Gender Equality

- Achieve gender equality and empower all women and girls.
- Aims to eliminate gender-based violence, ensure equal participation in decisionmaking, and promote equal rights and opportunities in education, work, and society.

6. Clean Water and Sanitation

- Ensure availability and sustainable management of water and sanitation for all.
- Focuses on improving access to clean water and sanitation, ensuring the efficient use of water resources, and addressing challenges such as water pollution.

7. Affordable and Clean Energy

- Ensure access to affordable, reliable, sustainable, and modern energy for all.
- Targets the expansion of renewable energy sources, improving energy efficiency, and ensuring equitable access to energy services, especially in underserved areas.

8. Decent Work and Economic Growth

- Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.
- Focuses on fostering economic growth, reducing inequality, creating quality jobs, improving working conditions, and promoting sustainable industries.

9. Industry, Innovation, and Infrastructure

- Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation.
- Aims to improve infrastructure in developing regions, promote sustainable industries, and stimulate innovation to support economic growth and resilience.

10. Reduced Inequalities

- Reduce inequality within and among countries.
- Addresses disparities in income, access to resources, opportunities, and social mobility, aiming to reduce inequalities both within and across countries.

11. Sustainable Cities and Communities

- Make cities and human settlements inclusive, safe, resilient, and sustainable.
- Focuses on creating sustainable urban areas, improving housing and transportation, and enhancing resilience to environmental challenges like climate change and natural disasters.

12. Responsible Consumption and Production

- Ensure sustainable consumption and production patterns.
- Encourages the efficient use of resources, reducing waste, promoting sustainable production processes, and shifting towards circular economies.

13. Climate Action

- Take urgent action to combat climate change and its impacts.
- Calls for the reduction of greenhouse gas emissions, increasing climate resilience, and enhancing global cooperation to combat climate change through mitigation and adaptation strategies.

14. Life Below Water

- Conserve and sustainably use the oceans, seas, and marine resources for sustainable development.
- Focuses on protecting marine ecosystems, reducing pollution, and promoting sustainable fishing and marine biodiversity conservation.

15. Life on Land

- Protect, restore, and promote sustainable use of terrestrial ecosystems, manage forests sustainably, combat desertification, halt and reverse land degradation, and halt biodiversity loss.
- Aims to protect ecosystems such as forests, wetlands, and biodiversity, while addressing challenges like deforestation, land degradation, and desertification.

16. Peace, Justice, and Strong Institutions

- Promote peaceful and inclusive societies for sustainable development, provide access to justice for all, and build effective, accountable, and inclusive institutions at all levels.
- Focuses on promoting rule of law, reducing violence, ensuring human rights, and strengthening institutions to deliver justice and good governance.

17. Partnerships for the Goals

- Strengthen the means of implementation and revitalize the global partnership for sustainable development.
- Aims to enhance global cooperation, financing, technology, capacity building, and partnerships between governments, civil society, and the private sector.

Key Principles Underlying the SDGs

- 1. **Universality**: The SDGs apply to all countries, regardless of their level of development. They recognize that global challenges are interconnected and require coordinated action across sectors and borders.
- 2. Leave No One Behind: The SDGs emphasize the importance of inclusivity, ensuring that the most marginalized and vulnerable groups are not left out of progress.
- 3. **Integration**: The SDGs aim to balance the three dimensions of sustainability—economic, social, and environmental—in a holistic manner.
- 4. Accountability: Monitoring and measuring progress is crucial. Each country is required to track its progress toward achieving the goals and report on it periodically.

Role of Stakeholders in Achieving the SDGs

- 1. **Governments**: Governments are primarily responsible for implementing policies and actions to achieve the SDGs. They must ensure that national development strategies are aligned with the SDGs.
- 2. **Private Sector**: The private sector plays a key role by promoting sustainable business practices, investing in clean technologies, and creating jobs that support economic growth.
- 3. **Civil Society and NGOs**: Civil society, including non-governmental organizations (NGOs), often plays a key role in advocacy, raising awareness, and working directly with communities to support the implementation of SDGs.
- 4. **International Organizations**: Organizations like the **United Nations**, the **World Bank**, and **regional development banks** help to coordinate international efforts, provide technical assistance, and facilitate global partnerships.
- 5. **Individuals**: Individuals can also contribute to the SDGs through conscious actions, such as reducing waste, conserving energy, supporting sustainable products, and advocating for social change.

Sustainable and Innovative Construction Practices

The construction industry plays a crucial role in shaping our built environment. However, traditional construction practices have often been linked to significant environmental degradation, resource depletion, and waste generation. As a result, there has been a growing shift towards **sustainable** and **innovative construction practices**. These practices focus on reducing the environmental impact, improving energy efficiency, and promoting sustainable use of resources throughout the lifecycle of a building or infrastructure project.

Key Aspects of Sustainable Construction Practices

1. Energy Efficiency and Reduced Carbon Emissions

- Sustainable construction aims to minimize **energy consumption** and **carbon emissions** during both the construction phase and throughout the lifecycle of the building.
- This can be achieved by utilizing high-performance insulation, efficient HVAC systems, solar energy, and passive design techniques to reduce heating and cooling needs.
- Green building certifications like LEED (Leadership in Energy and Environmental Design) or BREEAM (Building Research Establishment Environmental Assessment Method) promote energy-efficient designs and operational practices.

2. Sustainable Materials

- The choice of materials plays a pivotal role in sustainability. Using materials that are **renewable**, **locally sourced**, and **recyclable** reduces the environmental impact of construction.
- Recycled materials, such as recycled steel, glass, and concrete, as well as lowimpact materials like bamboo or hempcrete, help reduce the carbon footprint.
- **Sourcing local materials** reduces transportation emissions and supports the local economy.
- 3. Waste Reduction and Management
 - **Construction waste** is a significant environmental concern. Implementing practices such as **waste sorting**, **recycling**, and **reusing materials** can drastically reduce the amount of waste sent to landfills.
 - **Modular construction** is an innovative approach that uses prefabricated components, reducing construction waste and improving efficiency.

4. Water Conservation

- Sustainable construction incorporates water-saving measures such as low-flow plumbing fixtures, rainwater harvesting systems, and graywater recycling to reduce water consumption.
- **Green roofs** and **permeable paving** are also used to manage stormwater runoff and reduce the risk of flooding.

5. Site and Landscape Integration

- Sustainable construction practices include designing buildings that blend harmoniously with the surrounding environment, minimizing disruption to local ecosystems.
- **Ecosystem restoration** techniques, such as planting native species and creating wildlife corridors, help maintain biodiversity and reduce the environmental footprint of development projects.

Innovative Construction Practices

1. Modular and Prefabricated Construction

- **Modular construction** involves assembling components of a building in a factory setting before transporting them to the site for assembly. This reduces construction time, improves quality control, and minimizes waste.
- **Prefabricated systems** are used for walls, floors, and other building components, allowing for more efficient use of materials and energy.

2. 3D Printing and Additive Manufacturing

- **3D printing** technology has revolutionized the construction industry by enabling the production of building components layer by layer.
- **Concrete 3D printing** allows for rapid construction of complex architectural designs, reduces material waste, and lowers labor costs.
- This technology is particularly promising for creating sustainable housing solutions in disaster-stricken or underdeveloped areas.

3. Smart Buildings and IoT Integration

- Smart buildings integrate technology, such as sensors, automation, and Internet of Things (IoT) systems, to optimize energy use and improve the overall performance of buildings.
- **Building Management Systems (BMS)** can monitor and control lighting, heating, ventilation, and cooling, reducing energy consumption and operational costs.
- These technologies can also help monitor water usage, air quality, and waste management, contributing to the building's sustainability.

4. Green Roofs and Living Walls

- **Green roofs** are vegetated roofs that help with thermal insulation, improve air quality, and manage stormwater.
- **Living walls** (also called vertical gardens) are another innovative practice that involves growing plants on the exterior of buildings, enhancing aesthetics, improving insulation, and reducing energy use.
- These features help promote biodiversity and reduce the urban heat island effect.

5. Net-Zero and Positive Energy Buildings

- Net-zero energy buildings are designed to produce as much energy as they consume over the course of a year. These buildings rely on energy-efficient designs and renewable energy systems, such as solar panels, to offset their energy needs.
- Some buildings even go beyond net-zero and produce more energy than they consume, thus contributing surplus energy to the grid (positive energy buildings).

6. **BIM (Building Information Modeling)**

- **Building Information Modeling (BIM)** is an innovative digital tool that creates a detailed 3D model of the building and integrates data about materials, energy use, and environmental impact.
- BIM helps optimize the design and construction process, detect potential issues early, and reduce waste by improving planning and coordination.
- It also allows for better collaboration among architects, engineers, and contractors, improving the efficiency and sustainability of construction projects.

Benefits of Sustainable and Innovative Construction Practices

1. Environmental Benefits

• Reduced environmental impact through lower carbon emissions, energy conservation, and efficient waste management.

• Preservation of ecosystems and biodiversity by using sustainable construction practices that minimize soil disturbance and protect natural resources.

2. Economic Benefits

- Lower operational costs for energy, water, and waste management due to energyefficient buildings and resource-saving systems.
- **Long-term cost savings** from sustainable design and construction techniques, such as reduced maintenance and lower energy consumption.

3. Social Benefits

- **Health and well-being** improvements for occupants, as sustainable buildings often provide better indoor air quality, natural light, and a comfortable living or working environment.
- Creating jobs in **green construction** sectors, from designing energy-efficient systems to recycling materials and managing sustainable construction projects.

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NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH, CHANDIGARH

(BILL FOR HONORARIUM IN RESPECT OF LOCAL COORIDNATOR - REMOTE NODAL CENTRE)

Name of the Course	
/Programme and dates:	

Sustainable Development Goals – Challenges and Opportunities 21 to 25 August, 2023

O. Plan No -ICT -86

Name of the Local Coordinator - Remote Nodal Centre, Designation and Full Address

Dr.M.Balasubbareddy, Professor & Head department of EEE Chaitanya Bharathi Institute of Technology, Hyderabad

S.No.	Date and Time	Amount	Less TDS @ 10 % as per institute's rules	Amount Payable (in Rs.)
1.	21 - 25 August,2023	2500/-	250/-	2250/-
Total	Net Amount Payable:			2250/-

M. J. Signature of the Local Coordinator – Remote Nodal Centre

Certified that has coordinated as Local Coordinator of Remote Nodal centre, on the dates mentioned above.

Head of Department

(Dr. Poonam Syal) **Course Coordinator**

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Department of EEE, CBIT

Value Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications

29th-30th September, 05th -06th & 12th October 2023

Course Content

- Hands-on MATLAB Programming
- Implementation of Teaching Learning-based optimization (TLBO) in MATLAB
- Implementation of Differential evolution (DE) in MATLAB
- Implementation of Cuckoo Search Algorithm (CSA) in MATLAB
- Machine Learning for Engineering Applications

E-Certificate will be provided through email only.



Organizing Committee

Chairperson

Prof. C. V. Narasimhulu

Principal, CBIT

Convener

Dr. M. Balasubbareddy Professor & HOD/EEE

Coordinators

Dr. M. Balasubbareddy

Professor, Dept. of EEE Mobile: +91-9885308964

Dr. P. Kowstubha Associate Professor, Dept. of EEE

Mobile: +91- 9676402000

Dr. N. Venkataphanendrababu

Assistant Professor, Dept. of EEE Mobile: +91-8096909995

For further details please contact:

E-mail: balasubbareddy_eee@cbit.ac.in kowstubha_eee@cbit.ac.in phanendrababu_eee@cbit.ac.in



Department of Electrical and Electronics Engineering



Value Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications

29th-30th September, 05th -06th & 12th October 2023



Chaitanya Bharathi Institute of Technology

(Autonomous under UGC) Affiliated to Osmania University Kokapet (Village), Gandipet, Hyderabad – 500075 Telangana State, India. www.cbit.ac.in

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Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Twelve UG and Ten PG programs. It has been standing as a temple of knowledge for the past 45 years by producing about 30,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A++' Grade and various programs are accredited by NBA -AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

About Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and was accredited 5 times i.e. in the years 2004, 2008, 2013,2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The department has received grants worth around ₹1 crore from AICTE under RPS, SPARC, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹24 lakhs in collaboration with Foreign Universities in the domain of Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of a Ph.D. degree.

About Value Added Course (VAC)

Heuristics is a solution strategy by trial-and-error to produce acceptable solutions to a complex problem in a reasonably practical time. The complexity of the problem of interest makes it impossible to search every possible solution or combination, the aim is to find good, feasible solutions in an acceptable. timescale. There is no guarantee that the best solutions can be found, and we even do not know whether an algorithm will work and why if it does work. The idea is that an efficient but practical algorithm that will work most of the time and be able to produce good quality solutions. Among the found quality solutions, it is expected that some of them are nearly optimal, though there is no guarantee for such optimality.

Metaheuristic is an approach method based on a heuristic method that does not rely on the type of the problem. The metaheuristic method can be distinguished into two which are metaheuristic with single-solution based (local search) and metaheuristic based on population (random search). Metaheuristics algorithms provide suitable solutions for the path-finding problem in the IoT environment. Generally, these algorithms are classified into four main groups: evolutionary-based, swarm-based, human-based, and physics-based.



Resource Persons

Resource Persons will be the expert faculty from CBIT, Hyderabad.



EEE department Front View



R&E Hub Top View

Registration Link:

https://forms.gle/MFZLN6ZGmRbffDdk9

Last date for the registration is 27/09/2023.

CBIT, 25/09/2023.

To,

The principal,

CBIT (A), Hyderabad.

Sub: Req.-Approval-VAC- Organizing by EEE- Rgd.

Through-Proper-Channel

Respected Sir,

It is proposed to organize a Value Added Course (VAC) on "MATLAB and Machine Learning for Engineering Applications", by the Department of Electrical And Electronics Engineering in CBIT, during 29th-30th September, 05th -06th & 12th October 2023.

Though this course on emerging tool focuses mainly the students of EEE, the interested students from other departments are also invited to register this course.

We request you permit us to conduct this course, sir. We also request you forward the same to W&BC to upload onto the website.

Thanking you sir,

Por warded to the porter that. Rer warde be pormitted. Hay be pormitted. Astsport Forwarded M. Kone 2519/m

Yours sincerely,

Dr. N Venkataphanendrababu,

Coordinator-VAC, Assistant Professor,

EEE, CBIT (A), Hyderabad.





No.CBIT/ /Admn./2023

Dt.26.09.2023

CIRCULAR

It is proposed to organize a Value Added Course (VAC) on "MATLAB and Machine Learning for Engineering Applications", by the Department of Electrical And Electronics Engineering in CBIT, during 29th-30th September, 05th -06th & 12th October 2023.

All the interested Faculty and Students are directed to attend the event without detrimental to the class work and other important works. Attendance will be recorded for those who attend the event.

Brochure:

https://drive.google.com/file/d/1CWry2VBJVX3PBUdx98Jn3KITWjbiSw1t/view?usp=s haring

Registration:



For any further information contact the program Coordinators of the event, Dr. M Balasubbareddy, Professor & Head, Dr. P. Koustubha, Associate Professor, and Dr. N Venkataphanendrababu, Assistant Professor, EEED, Mobile: 9676402000/8096909995.

Principal

То

All the Advisors, Directors, Associate & Assistant Directors, Heads of the Departments, In-charges of Sections, Librarian, CoE, Head-HR, Asst. PD & PRO, for information and advised to circulate among all the staff and students under their control.

MATLAB and Machine Learning for Engineering Applications

Instruction Duration of Semester End Examination Credits 3 Hours per week 30 Hours 3

Course Objectives:

- 1. To acquire skills in MATLAB coding
- 2. To acquire the knowledge of Machine learning algorithms
- 3. To learn the intelligent approaches for the field of electrical engineering

Course Outcomes: After completion of the subject, students will be able to:

- 1. Understand the various Artificial Intelligent and Meta-heuristic Techniques
- 2. Classify the techniques according to their method of approach
- 3. Select the suitable technique for the given power system problem
- 4. Implement suitable Intelligent technique for the given power system problem
- 5. Execute any power system planning and operation using Artificial Intelligent Techniques

UNIT-I

Introduction to MATLAB Programming and Optimization: Introducing MATLAB and the MATLAB Working Environment, MATLAB Programming, Basic MATLAB Functions for Linear and Non-Linear Optimization,

UNIT-II

Teaching Learning-based optimization (TLBO): Introduction, Teacher phase and Learner phase of algorithm, modeling the Teacher phase and Learner phases, pseudo code, DE implementation in MATLAB.

UNIT-III

Differential evolution (DE): Introduction, Variants, Choice of Parameters, Implementation, algorithm, pseudo code, DE implementation in MATLAB.

UNIT-IV:

Cuckoo Search Algorithm (CSA): Cuckoo Breeding Behavior, Lévy Flights, Choice of Parameters, Cuckoo Search Algorithm, Variants of Cuckoo Search, pseudo code, DE implementation in MATLAB.

UNIT-V

Machine Learning for Engineering Applications: Applications of heuristic algorithms, economic load dispatch, optimal placement of DGs, Optimal placement of Charging stations, optimal placement of phasor measurement units, optimizing PID controller for DC motor control

Text Books:

- 1. Yang, X. S. (Ed.). (2017). Nature-inspired algorithms and applied optimization (Vol. 744). Springer.
- 2. Yang, X. S. (2020). *Nature-inspired optimization algorithms*. Academic Press.
- 3. Lopez, C. (2014). MATLAB optimization techniques. Apress.

Suggested Reading:

- 1. Messac, A. (2015). *Optimization in practice with MATLAB®: for engineering students and professionals*. Cambridge University Press.
- 2. Sumathi, S., & Kumar, L. A. (2018). *Computational intelligence paradigms for optimization problems using MATLAB®/SIMULINK®*. CRC Press.



DEPARTMENT OF ELECTRICAL and ELECTRONICS ENGINEERING

Value Added Course (VAC) on "MATLAB and Machine Learning for Engineering Applications" 29rd-30th September, 05th -06th & 12th October 2023

Schedule

Day & Date	10:00am-11.30 am	11.30am – 1pm	1pm- 2 pm	2.00 pm – 3.30pm	3.30 pm – 5.00pm
Friday	Inauguration (MPSP)	Introduction to MATLAB		MATLAB Programming	Practical Session/Lab
Saturday 30/09/2023	Optimization Techniques and TLBO Algorithm (MBSR)	TLBO implementation in MATLAB (MBSR)	L	Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
Thursday 05/10/2023	DE Algorithm (MBSR)	DE implementation in MATLAB (MBSR)	U N C	Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
Friday 06/10/2023	CSA Algorithm (MBSR)	CSA implementation in MATLAB (MBSR)	H	Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
Thursday 12/10/2023	Introduction to Machine Learning and Deep Learning (MBSR)	Implementation of Machine learning algorithms (MBSR)		Test & Feedback (MBSR, NVPB, PK)	Valedictory (MBSR, NVPB, PK)

MBSR: Dr. M. Balasubbareddy, PK: Dr. P. Kowstubha, NVPB: Dr. N. Venkataphanendrababu

Head of the Dept., EEE

VAC Report: MATLAB and Machine Learning for Engineering Applications

Introduction: The VAC titled "MATLAB and Machine Learning for Engineering Applications" was conducted to enhance participants' understanding of Artificial Intelligence (AI) and Meta-heuristic techniques, and their application in solving power system problems. The VAC provided a comprehensive platform for theoretical learning and practical implementation of intelligent techniques using MATLAB.

Workshop Objectives:

- 1. Understand various Artificial Intelligent and Meta-heuristic Techniques.
- 2. Classify these techniques according to their method of approach.
- 3. Select suitable techniques for specific power system problems.
- 4. Implement appropriate Intelligent techniques for power system issues.
- 5. Execute power system planning and operation using Artificial Intelligent Techniques.

Workshop Topics Covered:

- 1. Introduction to Artificial Intelligence and Meta-heuristic Techniques:
 - Overview of AI and its relevance to engineering applications.
 - Meta-heuristic algorithms, including Genetic Algorithms (GA), Particle Swarm Optimization (PSO), and Ant Colony Optimization (ACO).

2. Classification of AI Techniques Based on Approach:

- Data-driven methods: Machine Learning algorithms like Neural Networks and Support Vector Machines.
- Evolutionary techniques: Genetic Algorithms and Differential Evolution.
- Swarm intelligence techniques: Particle Swarm Optimization and Ant Colony Optimization.
- Hybrid approaches: Combining two or more techniques for improved results.

3. Selection of Suitable Techniques for Power System Problems:

- Identifying problem characteristics such as non-linearity, uncertainty, and multi-objective requirements.
- Matching problem requirements with the strengths of AI or Meta-heuristic techniques.
- Case studies on load forecasting, fault detection, and energy management.
- 4. Implementation of Intelligent Techniques in MATLAB:
 - Step-by-step demonstration of algorithm implementation using MATLAB.
 - Designing and testing Neural Networks for load forecasting.
 - Optimization of power flow using PSO and GA.
- 5. Power System Planning and Operations Using AI Techniques:
 - Application of AI for grid stability and reliability.
 - Examples of AI-driven solutions for renewable energy integration.
 - Simulation of demand response management using AI tools.

Hands-On Sessions: Participants were provided practical exposure to:

- Developing custom MATLAB scripts for AI models.
- Analyzing power system datasets using Machine Learning techniques.
- Optimizing power system operations using Meta-heuristic algorithms.

Key Outcomes:

- Enhanced understanding of AI and Meta-heuristic techniques.
- Ability to classify and select suitable methods for engineering problems.
- Proficiency in implementing AI models in MATLAB for power system applications.
- Practical knowledge of executing power system planning and operations using AIdriven techniques.

Participant Feedback: The workshop received highly positive feedback, with participants appreciating the balance between theory and practical sessions. Many highlighted the clarity of explanations and the relevance of examples to real-world applications.

Conclusion: The "MATLAB and Machine Learning for Engineering Applications" workshop successfully equipped participants with the knowledge and skills to apply AI and Meta-heuristic techniques in power system problems. The hands-on experience ensured that attendees could confidently implement these methods in their respective fields.

Recommendations for Future Workshops:

- Advanced topics such as Deep Learning and Hybrid Optimization techniques.
- Real-time system integration and hardware implementation.
- Extended sessions for more in-depth hands-on practice.

Participation:

The program saw active participation from faculty members, and students. The sessions were interactive, providing a platform for participants to discuss and resolve queries.

S.No.	Name of the staff	Designation	DEPARTMENT
1.	Dr. M. Balasubba Reddy	Professor	EEE, CBIT
2.	Dr. T.Murali Krishna	Associate Professor	EEE, CBIT
3.	Dr. T.Sudhakar Babu	Associate Professor	EEE, CBIT
4.	Sri. I. Pranav	Assistant Professor	EEE, CBIT
5.	Sri. D.Harrsha	Assistant Professor	EEE, CBIT
6.	Dr. Madhulika Das	Assistant Professor	EEE, CBIT
7.	Dr.Yawer Abbas Khan	Assistant Professor	EEE, CBIT
8.	Sri. D. Sathish	Assistant Professor	EEE, CBIT
9.	Smt. D. Sushma	Assistant Professor	EEE, CBIT

List of Participants:

B.E-VII-SEM-D1					
S.No	Roll Number	Name of the Student	SEM	Section	
1	160120734003	BURA AKSHAYA	VII	EEE-D1	
2	160120734004	DHAMMA DIVYA REDDY	VII	EEE-D1	
3	160120734006	CHUNDURU GOWTHAMI	VII	EEE-D1	
4	160120734007	KANCHAPU JAYA SAI TANMAYI	VII	EEE-D1	
5	160120734009	POOSKUR KUNDANA	VII	EEE-D1	
6	160120734012	NOUREEN SULTANA	VII	EEE-D1	
7	160120734013	NARAYANA POOJA REDDY	VII	EEE-D1	
8	160120734015	PUNUMALLI PRAVALLIKA	VII	EEE-D1	
9	160120734016	VAVILALA ROHITHA RAGA	VII	EEE-D1	
10	160120734019	CHEELA TEJASRI	VII	EEE-D1	
11	160120734020	VAISHNAVI SANUGOMMULA	VII	EEE-D1	
12	160120734021	GANJI ADWAITH	VII	EEE-D1	
13	160120734027	C CHARAN KUMAR	VII	EEE-D1	

14	160120734028	MOHAMMED FAISAL	VII	EEE-D1
15	160120734029	MD FERDOUES	VII	EEE-D1
16	160120734030	VADDE GANESH	VII	EEE-D1
17	160120734031	GADDE GNANDEEP	VII	EEE-D1
18	160120734032	VUTUKURI GOPICHAND	VII	EEE-D1
19	160120734034	KADARI KOWSHIKK	VII	EEE-D1
20	160120734036	SAKAM MANIKANTA REDDY	VII	EEE-D1
21	160120734041	AMGOTH RAVINDER NAIK	VII	EEE-D1
22	160120734042	GAJWARI SAI KIRAN	VII	EEE-D1
23	160120734047	NATHAM SANTOSH	VII	EEE-D1
24	160120734049	V SHANTAN RAMI REDDY	VII	EEE-D1
25	160120734055	GUNDLA SRIDHAR REDDY	VII	EEE-D1
26	160120734058	KUNDURU VENKATA SAI CHARAN REDDY	VII	EEE-D1
27	160120734303	GANJI ESHWAR	VII	EEE-D1
28	160120734304	BURA NAGASRI	VII	EEE-D1
29	160120734305	BANOTH HARJUN	VII	EEE-D1

B.E-VII-SEM-D2					
S.No	Roll Number	Name of the Student	SEM	Section	
1	160120734061	DARAVATH ANUSHA	VII	EEE-D2	
2	160120734062	SHAIK AYESHA FARHEEN	VII	EEE-D2	
3	160120734063	NENDRALLA BHAVANA	VII	EEE-D2	
4	160120734064	THATICHETLA BHUVANA PALINI	VII	EEE-D2	
5	160120734068	DANDU NIHARIKA	VII	EEE-D2	
6	160120734073	GUJJA RISHITHA	VII	EEE-D2	
7	160120734074	NANDIKONDA SAIARUN	VII	EEE-D2	
8	160120734076	TEYNAMPET SHREYA	VII	EEE-D2	
9	160120734077	GUNDA SREESHMA	VII	EEE-D2	
10	160120734080	D VAISHNAVI	VII	EEE-D2	

11	160120734090	RASAMADUGU HAREYAANK	VII	EEE-D2
12	160120734091	ANUMALLA HARSHITH	VII	EEE-D2
13	160120734095	M KIRAN KUMAR	VII	EEE-D2
14	160120734097	MADHILESH ERRAMSHETTI	VII	EEE-D2
15	160120734099	CHALASANI MAHESH TEJA	VII	EEE-D2
16	160120734102	VADGURE PAVAN KALYAN	VII	EEE-D2
17	160120734104	PUSULURI PRANAY	VII	EEE-D2
18	160120734106	BASHABOINA RAJU	VII	EEE-D2
19	160120734308	PATTURI SAI PRIYA	VII	EEE-D2
20	160120734310	GANGULA AKASH	VII	EEE-D2
21	160120734311	YADAGIRI AKANKSHA	VII	EEE-D2
22	160120734312	MUZAFFAR NAVEED	VII	EEE-D2

M.E-PSPE						
S.No	Roll Number	Name of the Student	Branch			
1	160122766001	NARASIMHULU	M.E-PSPE			
2	160122766002	BEEMARI PRANESH	M.E-PSPE			
3	160122766003	A IHTESHAM UDDIN AHMED	M.E-PSPE			
4	160122766004	MARAPALLY SAI CHARAN	M.E-PSPE			
5	160122766005	SUNKARI SRILATHA	M.E-PSPE			
6	160122766006	BOLLE SHIRISHA	M.E-PSPE			
7	160122766007	DEVSOTH SRINIVAS	M.E-PSPE			
8	160122766008	SANGEETHA BACHALA	M.E-PSPE			
9	160122766009	ERPULA RANI	M.E-PSPE			

Photos:





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Registration FormValue Added Course (VAC) on'MATLAB and Machine Learning for Engineering Applications'
29rd-30th September, 05th -06th & 12th October 2023

Organized by, Electrical and Electronics Engineering Department, CBIT (A),

REGISTRATION FORM

1. Applicant Name:			
(In Cru IIIILS)		First	Last
2. Roll Number:			
3. Year, Section:			
4. Department:			
5. Institution:			
6. Contact Address:			
	State:		PIN:
7. Contact Info:			
	Mobile Email:	Phone	Fax

Declaration by the Applicant:

If selected, I agree to abide by the rules and regulations of the workshop/ training programme and shall attend all the sessions.

Date:

Signature of the Applicant

Office Seal

Signature of the Head of the Department/ Institution



Electrical and Electronics Engineering Department Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, Telangana-500075.

Department of EEE, CBIT

Short Term Course (STC) on Al using MATLAB

30th September to 25th November 2023 (only on Saturdays and Sundays)

Course Content

- Hands-on MATLAB SIMULINK/Programming
- Implementation complex codes for mathematical operations.
- Formulating Electrical operations in MATLAB environment
- ✤ Basics of Machine Learning
- Application of Machine Learning in Electrical Engineering Applications

E-Certificate will be provided through email only.



Organizing Committee

Chairperson

Prof. C. V. Narasimhulu Principal, CBIT

Convener

Dr. M. Balasubbareddy Professor & HOD/EEE

Coordinators

Dr. M. Balasubbareddy

Professor, Dept. of EEE Mobile: +91-9885308964

Dr. N. Venkataphanendrababu

Assistant Professor, Dept. of EEE Mobile: +91-8096909995

Dr. P. Vijay Babu Assistant Professor, Dept. of EEE Mobile: +91 70523 06434

For further details please contact:

E-mail: balasubbareddy_eee@cbit.ac.in phanendrababu_eee@cbit.ac.in vijaybabup eee@cbit.ac.in



Department of Electrical and Electronics Engineering



Short Term Course (STC) on Al using MATLAB

30th September to 25th November 2023 (only on Saturdays and Sundays)





Chaitanya Bharathi Institute of Technology

(Autonomous under UGC) Affiliated to Osmania University Kokapet (Village), Gandipet, Hyderabad – 500075 Telangana State, India.

89

Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Twelve UG and Ten PG programs. It has been standing as a temple of knowledge for the past 45 years by producing about 30,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A++' Grade and various programs are accredited by NBA -AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

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About Short-Term Course (STC)

Artificial intelligence, often abbreviated as AI, emulates intelligent human behavior through computer systems. These systems are engineered to perceive their surroundings, comprehend various actions and responses, and execute tasks autonomously. Take self-driving cars as an example: they incorporate AI algorithms like machine learning and deep learning within intricate settings to achieve automation.

MATLAB can significantly reduce data preprocessing time using apps and data types, regardless of whether you're working with timeseries sensor data, images, or text. MATLAB's highlevel functions streamline tasks like synchronizing disparate time series, replacing outliers with interpolated values, filtering noisy signals, splitting raw text into words, and more. Additionally, MATLAB enables quick data visualization to spot trends and identify data quality issues through plots and the Live Editor.

MATLAB apps also automate the process of groundtruth labeling for image, video, and audio data. Furthermore, when you need to test algorithms before obtaining actual sensor or equipment data, you can create synthetic data using Simulink. This method is commonly employed in automated driving systems like adaptive cruise control, lane-keeping assist, and automatic emergency braking



Resource Persons

Dr. M. Balasubbareddy Dr. K. Krishna Veni

Dr. T. Sudhakar Babu



EEE department Front View



R&E Hub Top View

Registration Link:

https://forms.gle/xYzuz1nVPrhb5tJt7

Last date for the registration is 29/09/2023.

CBIT, 27/09/2023.

To.

The principal,

CBIT (A), Hyderabad.

Sub: Req.-Approval-STC- Organizing by EEE- Regd.

Through-Proper-Channel

Respected Sir,

It is proposed to organize a Sort-Term Course (STC) on "AI using MATLAB", by the Department of Electrical And Electronics Engineering in CBIT, during 30th September to 25th November 2023 (only on Saturdays and Sundays).

Though this course on emerging tool focuses mainly the students of EEE, the interested students from other departments are also invited to register this course.

We request you permit us to conduct this course, sir. We also request you forward the same to W&BC to upload onto the website.

Thanking you sir,

Yours sincerely,

Dr. N Venkataphanendrababu,

Coordinator-STC.

Assistant Professor,

EEE, CBIT (A), Hyderabad.

Forwarded

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Will be Considered as Interninip - fatter 29/9/23





NO.1076/CBIT/AEC/IC/2023 CIRCULAR

Dt.27.09.2023

It is proposed to organize a Sort-Term Course (STC) on "AI using MATLAB", by the Department of Electrical And Electronics Engineering in CBIT, during 30th September to 25th November 2023 (only on Saturdays and Sundays).

All the interested Faculty and Students are directed to attend the event without detrimental to the class work and other important works. Attendance will be recorded for those who attend the event.

Brochure:

https://drive.google.com/file/d/1ciV-hoCR5OgGWI99ksixt7rn1M4t1t-s/view?usp=sharing

Registration:



For any further information contact the program Coordinators of the event, Dr. M Balasubbareddy, Professor & Head, Dr. N Venkataphanendrababu, Assistant Professor, and Dr. P. Vijay Babu, Assistant Professor, EEED, Mobile: 7052306434/8096909995.

PRINCIPAL

То

All the Advisors, Directors, Associate & Assistant Directors, Heads of the Departments, In-charges of Sections, Librarian, CoE, Head-HR, Asst. PD & PRO, for information and advised to circulate among all the staff and students under their control.

AI using MATLAB

Instruction Duration of Semester End Examination Credits

Course Objectives:

- 1. To acquire skills in MATLAB coding
- 2. To acquire the knowledge of Machine learning algorithms
- 3. To learn the intelligent approaches for the field of electrical engineering

Course Outcomes: After completion of the subject, students will be able to:

- 1. Understand the coding in MATLAB environment.
- 2. Write complex codes for mathematical operations.
- 3. Formulate Electrical operations in MATLAB environment
- 4. Demonstrate the concept of Machine Learning
- 5. Apply machine learning algorithms for Electrical Engineering field.

Module-I:

Basics: MATLAB environment, variables, Basic data types, Relational and Logic operators, Conditional statements, Input and Output, Loops and bracing.

Module -II:

Matrices: Creating and Manipulating matrices, Matrix mathematics and Matrix functions, 3– dimensional arrays, Cell arrays, Structures.

Module -III:

Plotting and M—**file Scripts:** Plotting: 2-D and 3-D plots: Basic plots, subplots, Histograms, Bar graphs, Pie charts, Creating saving and running an M—file, creating and running of a function, function definition line, H1 and help text lines, Function body, Sub – functions.

Module -IV:

Introduction to Machine Learning: Introduction, Supervised and Unsupervised learning algorithms, Implementation of Machine Learning techniques.

Module-V:

Applications to Basic Electrical Circuit Analysis: Analysis of electrical networks-solution of series-parallel circuits, solution of mesh and nodal analysis, Network theorems-validation of Maximum power transfer theorem and verification of super position theorem, solution of linear differential equations-solution of First-Order differential equation.

Text Books:

- 1. Saadat, H., & Electrical Engineering Series. (1993). *Computational aids in control systems using MATLAB* (p. 141). McGraw-Hill.
- 2. Deisenroth, Marc Peter, A. Aldo Faisal, and Cheng Soon Ong. "*Mathematics for machine learning*". Cambridge University Press, 2020.

Suggested Reading:

- 1. Houpis, C. H., & Sheldon, S. N. (2013). *Linear Control System Analysis and Design with MATLAB*®. CRC Press.
- 2. Ciaburro, G. (2017). MATLAB for machine learning. Packt Publishing Ltd.

45 Hours per week 90 Hours

Report

Objective

The workshop titled "AI Using MATLAB" was designed to introduce participants to the fundamental concepts of MATLAB and its applications in artificial intelligence and related domains. The sessions aimed to equip attendees with hands-on experience in MATLAB, exploring topics ranging from basic programming to advanced applications in machine learning and electrical circuit analysis.

Agenda and Topics Covered

1. Basics of MATLAB

- Introduction to MATLAB interface and environment.
- Overview of MATLAB syntax and commands.
- Basic mathematical operations and matrix manipulations.
- File management and workspace handling.

2. Plotting and M-file Scripts

- Understanding 2D and 3D plotting in MATLAB.
- Creating and customizing plots for data visualization.
- Writing and executing M-file scripts for repetitive tasks.
- Debugging and structuring MATLAB code.

3. Introduction to Machine Learning

- Overview of machine learning concepts and its significance in AI.
- MATLAB's Machine Learning Toolbox.
- Implementing basic supervised and unsupervised learning algorithms.
- Hands-on exercises with data preprocessing, model training, and evaluation.

4. Applications to Basic Electrical Circuit Analysis

- Using MATLAB for solving electrical circuit problems.
- Simulation and analysis of circuit parameters.
- Visualization of voltage, current, and impedance characteristics.
- Real-world examples demonstrating MATLAB's utility in electrical engineering.

Workshop Highlights

- **Interactive Sessions:** The workshop included engaging lectures and live demonstrations to enhance learning.
- Hands-On Activities: Participants were provided with practical exercises and datasets to implement the concepts covered.
- **Q&A and Troubleshooting:** Dedicated sessions for addressing queries and discussing real-world challenges.
- **Resource Materials:** Comprehensive notes and sample codes were shared with all attendees.

Key Takeaways

- Proficiency in basic MATLAB operations and programming.
- Ability to create visualizations and automate tasks using scripts.
- Understanding of foundational machine learning principles and their implementation.
- Application of MATLAB in analyzing and solving basic electrical circuit problems.

Feedback and Recommendations

- **Participant Feedback:** Overall, participants appreciated the clarity of explanations and the practical approach of the sessions.
- **Recommendations:** Suggestions included extending the workshop duration and covering advanced topics such as deep learning and real-time applications.

Conclusion

The "AI Using MATLAB" workshop successfully introduced participants to MATLAB and its diverse applications in AI and engineering. The sessions bridged the gap between theoretical concepts and practical implementation, empowering attendees with the skills to leverage MATLAB for various technical challenges.

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ABOUT CBIT (AUTONOMOUS)

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 12 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.59 on a four point scale at 'A++' grade in 2023 for five years. CBIT is ranked in the rank band 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres.

ABOUT EEE DEPARTMENT

CBIT started the Electrical & Electronics Engineering UG program in 1994 and was accredited 5 times i.e. in the years 2004, 2008, 2013,2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The lepartment has received grants worth around 90lakhs from ICTE/MHRD under RPS., MODROBS, FDP, STTP, etc. he Department is offering consultancy services worth 21 lakhs in collaboration with Foreign Universities in the omain of Renewable Energy Systems. The Department is so certified by ISO 9001:2015. The Department is cognized as Research Centre in 2017 by Osmania niversity to carry out research for the award of a Ph.D. gree

ABOUT THE FDP

NEP 2020 recognizes the importance of integrating indigenous knowledge, traditions, and cultural practices into the education system. The major aspects include cultural relevance, Holistic education, local Language, inter disciplinary approach. The forthcoming Faculty Development Programme (FDP) guarantees an immersive exploration, illuminating the pivotal role that Higher Educational Institutions (HEI) play in sculpting the educational landscape.

Course Duration: "36 hours" of online sessions Certificate(s) of Participation: "FDP Certificate".

OBJECTIVES OF THE FDP

- To understand the Indian Knowledge systems concept
- To comprehend the necessity of IKS in implementation of NEP 2020
- To equip ourselves about our role as stakeholder in HEI in executing IKS in NEP 2020

OUTCOMES OF THIS FDP

On Successful completion of this program, participant will be able to:

- Uncover the relevance of IKS in fostering cultural inclusivity and a well-rounded educational experience.
- Develop actionable strategies to align institutional practices with the principles of NEP 2020.
- Enhance your role as an educator in shaping a curriculum that embraces India's rich knowledge heritage.



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

One Week Faculty Development Program (FDP)

On

Exploring the Significance of Indian Knowledge Systems (IKS) in the Context of National Educational Policy (NEP)2020-The Role of Higher Educational Institutions (HEI) (Online)

5th-10th FEBRAURY 2024

Organizing by

Department of EEE Chaitanya Bharathi Institute of Technology (Autonomous) Affiliated to Osmania University, Accredited by NAAC A++ Grade, Kokapet (V), Gandipet (M), Hyderabad-75, Telangana State, India.

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Department of EEE :: CBIT- Hyderabad

Schedule of sessions of FDP-IKS :: 5-10 Feb' 2024

				10M 0 20 PM	2.30 PM to 4.00 PM	
Day/sess	09.30-11.00AM	11.00AM-12.30 PM		1PM -2.30 PM	The start he Indianness	
05.02.24 Mon	Inauguration	ndian Knowledge Systems- An overview of our Civilizational Corpus Prof. B.Mahadevan		Significance of Vedic Mathematics in IKS Dr G.Suresh Babu CBIT, Hyderabad	of IKS Dr Anuradha IIT – Kharagpur Co-ordinator-IKS-AICTE	
06.02.24 Tue	The Panchatantra Po Dr Bh Sri Sri Univ	edagogy- beyond stories arat Dash versity, Odisha	Myths and Facts about 1 Dr Vinayak R. Bhat Chanakya University Bengaluru		Doing Research in IKS: Why, What and How? Prof.Ganti S Murthy IIT – Indore National Coordinator- IKS-AICTE-MoE-Gol	
07.02.24 Wed	Indian Knowledge systems and Indian Education systems: A comparative analysis Dr Brig. Jeevan Purohit Consultant- IKS – New Delhi		I BREAK	Universe -The interplay of Three Gunaas Dr. AV N Rao PI-RC-IKS-SB-TS		
08.02.24 Thu	Health, Hygiene and wellness- A leaping and pervasive trend through Ayurveda Dr Aswani Kumar Sharama RVCE - Bengaluru	Techniques in IKS for preservations and interpretation of ancient Scriptures Dr Nagendra Pavana IIT - Mumbai	LUNCE	Ancient Indian Vedic Mat paradigm to enhance th app Sri SG Rah RVCE	hematics as a new arithmetic ne performance of AI based lications gavendra Prasad - Bengaluru	
09.02.24 Fri	Role of Manuscripts in Indian Knowledge systems Dr SubbaRao GOML&RI, OU.Hyderabad	Origin of Computer Commands in Astadhyayi Smt. Gayatri Nagamani CBIT, Hyderabad		An overview of Mathem & Vallyupasamhara: A so used in Astron Dr Ve IIS	atics and Astronomy in India ophisticated Mathematical too omical Computations enkatesh Pai SER, Pune	
10.02.24 Sat	Scripts- The carriers of IKS through ages Smt. Gayatri Nagamani CBIT, Hyderabad	Computational Algorithms in Sanskrit studies Dr Aneesh BITS - Hyderabad		Test & feedback	valedictory	







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ONLINE- FDP on IKS during 5-10 February 2024

పరిచయ వినూత్న సూత్రం

[PAVITRAM]

Dear Participants,

Good day to you all!

At the outset, we thank you all for your interest shown in knowing about **Indian Knowledge Systems** [IKS]- Bharateeya Gnana Parampara by registering to this FDP.

It is customary to get introduced each other during frequent intervals of Offline FDP. But this being ONLINE-FDP, same concept is customised and christened as **PAVITRAM** which is exclusively to enhance the bilateral cordial relations.

Three slots are scheduled for this PAVITRAM

1.09.02.2024, -Friday $1.00 PM to 1.20 P$	to 1.20 PM	1.00 PM to	. 09.02.2024, -Friday
-------------------------------------------	------------	------------	-----------------------

- 2. 10.02.2024- Saturday 9.30AM -to 9.50AM
- 3. 10.02.2024- Saturday 2.15 PM to 2.30 PM

Guidelines to PAVITRAM

- 1. You can choose any one of the slots mentioned above.
- 2. You switch ON the Camera (video) in your system and introduce yourself.
- 3. Your Name, Designation, Department, Organisation

Place of the organisation and State

- In case, if you are not affiliated to any Organisation, doesn't matter....You can simply say "I am so and So [Name]...from So and So [Place]
- 5. Altogether, not more than a Minute Please.

Your cooperation in executing this mission PAVITRAM is highly appreciated

Team -FDP-IKS

BESTLY & REBRITARY 2004 | THE HAVE HORA | INDERVEND Hyderabad to be developed

as AI, innovation hub



On the last d

Bhatti's wife seeks Cong ticket from Khamman

City/Region

OK SABHA POLLS

Gandhi Bhavan flooded

by ticket hopefuls

Panel gets cracking on Dharani restructuring

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EEE department to organise weeklong faculty devpt prog

a complaint lodged by a drug addict

Cops bust drug suppliers ring targeting pubs







Holds meeting with meeting with officials of key



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Bhatti's wife seeks Cong ticket from Khammam

HYDERABAD: Deputy Chief Minister Mallu Bhatti Vikramarka's wife Mallu Nandini on Saturday submitted an application seeking the allotment of Khammam Lok Sabha seat to her on behalf of the Congress party. Accompanied by a large number of supporters and party activists, Mallu Nandini came to the Gandhi Bhavan and submitted the application.

Her supporters have al-

ready submitted an application once.

Nandini came to the Congress party office with a huge convoy of about 500 cars and a big band from Khammam. Her supporters burst crackers on the premises of Gandhi Bhavan and danced to the tunes of the drum beats.

Speaking to the media, Mallu Nandini said that she was coming into direct politics and had intended to contest from the Khammam Lok Sabha seat. "I will work together even if Congress leaders Sonia Gandhi or Priyanka Gandhi contest from Khammarn Parliament seat.

If they are not ready to contest from Khammam, I will be in the fray. I am appealing the Congress high commond to consider my name from Khammam Lok Sabha seat. My ultimate goal is to make our leader Rahul Gandhi as Prime Minister for the country," she said.

i restructuring

f key vebsite



questions nse which upon and or the conpresently. t answers arding the ss with regard to lands under Wakf. During the meeting with the officials of Survey and Settlement, the committee sought details on survey records presently being conducted and if the Pahani records were uploaded to the Dharani portal.

They questioned the officials regarding the survey undertaken by the earlier Congress government under Bhu Bharati, prior to the formation of Telangana. They also ask about difference between the present situation of the survey maps and the variation between the maps when compared with Dharani portal. They also sought to know the preservation of documents which are from the times of the Paigahs.

EEE department to organise weeklong faculty devpt prog

HANS NEWS SERVICE HYDERABAD

THE department of EEE is organising one-week online Faculty Development Program (FDP) on 'Exploring the Significance of Indian Knowledge Systems (IKS) in the Context of National Educational Policy (NEP)2020-The Role of Higher Educational Institutions " from February 5 - 10 in Hyderabad.

NEP 2020 recognizes the importance of integrating indigenous knowledge, traditions, and cultural practices into the education system.

The major aspects include cultural relevance, holistic education, local Language, inter disciplinary approach. The forthcoming faculty development programme (FDP) guarantees an immersive exploration, illuminating the pivotal role that higher educational institutions (HEI) play in sculpting the educational landscape.

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and the apparatus used to write the manuscripts. This subject, being a rare in its nature , attracted the attention of audience.

12th session: vedic mathematics: Sri.SG.Raghavendra Prasad

Sri.SG.Raghavendra Prasad, with his experience in teaching and knowledge in Vedic Mathematics, has given the usage of Vedic mathematics in AI applications to achieve accurate and speed result.

13 th session: comparision between computer commands and Ashthadhyayi

Mrs. V.gayathri Nagamani, Assistant Professor in CBIT, explained the similarities between computer commands and Grammar sutras of Ashthadhyayi.

14th session: Mr.Venkatesh Pai, An overview of Mathematics and astronomy in India and the technique called "Vallyupasamhara". – a tool used in astronomical computations.

The speaker made the audience spellbound with his thought provoking lecture about the Valyupasamhara technique., used in astronomical computations. He also gave an extensive lecture of the astronomical details and the appearance of sky for calculation of time and distances.

15th Session: The scripts- the carriers of IKS through ages – V. Gayathri Nagamani.

In this session the speaker has given an overview of the scripts of Indian origin and how they helped in securing our scriptures from extinction.

16th Session: Computational algorithms in Sanskrit studies By Dr. Anvessh, BITS, Hyderabad

In this talk the speaker has given many modern models and techniques in studying the scriptures in the ancient Language, The Sanskrit. He introduced many tools for making the study of Sanskrit easier.

IKS-FDP- Session details

Session 1: Dr.Prof. B.Mahadevan, IKS-An overview of our Civilizational Corpus

Prof B.Mahadevan, in his keynote address, shown many temples and explained the temple architecture and its importance in keeping the society united. He explained the temples' the techniques used in carving and transporting the boulders to the site and how the carved stones are placed n the top of the temples.

As a first textbook writer for IKS, he has shared his knowledge on all the divisions of IKS.

Session 2: Significance of Vedic mathematics. - Dr. G. Suresh Babu,

Dr. G.Suresh Babu in his workshop mode Vedic Mathematics session, explained about the Vedic mathematics and it's usage in modern days. He explained some sutras of Vedic mathematics and made the participants to attempt to solve some questions.

3 rd session: Discovering the Indianness of IKS: Dr.Anuradha.

Dr.Anuradha madam explained the process of identifying the Indian-ness in the

literatures.

4th Session Dr.Bharat Das The Panchatantra pedagogy beyond stories.

Dr.Bharatdas has presented the Panchatantra stories in a different perspective. The participants got enthralled of his way of explaining the story in an unknown way so far.

5th session: Dr.Vinayak Bhat: Myths and facts about IKS?

Dr.Vinayak Bhat has explained the myths about IKS systems and gave the differences between the Epic and History. Some of his statements have a scope to have a lengthy deliberations to prove its historicity.

6th session: Ganti S. Murthy : Doing research in IKS? Why, What and How?

Dr.Ganti S. Murthy in his elaborated discussion on the topics that are eligible under IKS. This has given a range of titles to the participants with which they can start their research.

7th Session: IKS and Indian Education system: a comparision: Dr.Brigadier. Jeevan Purohit

Dr.Brigadier. Jeevan Purohit coming from the most revered service i.e., Army, more apt to his profession has selected the education system in ancient days with a special reference to Dhanurveda', which deal with the usage of weapons and the techniques. His speech enthralled the audience as he has demonstrated the skills of using weapons combined with his practical experience.

8th Session: The Universe - Interplay of three GUNAS: Dr.AVN. Rao

Dr. AVN Rao an accomplished teacher in CBIT and in his continued service in Samaskruta Bharathi as a teacher, has given an elaborate lecture on the Thri-gunas'. While explaining them, he has given it in the mathematical perspective of the % s of gunas and its'variations that leads to different types of personalities.

9th session: Health, hygiene in Ayurveda?

In this session Dr. Ashwini Kumar Sharma explained the ancient Indian Indigenous medical system, i.e., Ayurveda and put-forth many rare and new concepts of Ayurvedic system of medicine, which are hitherto not well known in the society. His talk on the system of surgery in Ayurveda attracted many questions from enthusiastic audience.

10th session: Techniques in IKS for preservation and interpretation of ancient scriptures?

Dr.Nagendra Pavana, IIT, Mumbai, explained the techniques for preservation of ancient scriptures.

11th session: Techniques in IKS for preservation and interpretation of ancient scriptures?

Dr. Subbarao garu as a government official, Director of Oriental library, Osmania University , has explained the types of Manuscripts and the preservation techniques

16	CHOLLETTHADISH	9441952462	CBIT	
17	Varun krishna paravasthu	9030645790	Osmania university	
18	Y Sravan Kumar	8099226240	byteXL India Pvt Ltd	ADDA
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27	Banothu Balasubramanyam	7013787948	CBIT	
28	Dr.S.Sumithra	9963710844	CBIT	
29	Prof. kalapini Agasti	8275394979	KKSU, Ramtek	
30	Dr. Satheesh Gundlapalli	9490111297	G. NITS (for Women)	
1	P Venkatesham	9912772635	Green Seva Foundation	
2	M.Mysaiah	8639193154	ACE Engg College	
3 1	Dr. S. Meenakshi	9486255955	Vels Chennai	Contraction of the second seco
4 (Gotluru Neerajakshi	9493411402	Home Maker	
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E	Dr. Ashutosh Pareek	9460355172	SPC Govt.college, Ajmer, Rajasthan	$\label{eq:states} \begin{array}{c} \text{Hermitian}\\ Her$
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D	r SAMAVEDAM SANTHI	9849649858	MGIT	

Department of EEE :: CBIT, Hyderabad

One-week ONLINE - Faculty Development Program (FDP)

on

" Exploring the Significance of Indian Knowledge Systems (IKS) in the Context of National Educational Policy (NEP) 2020-The Role of Higher Educational Institutions (HEI)" during 5 th - 10th February'24.

C NI-	Name	Mobile Number	Name of the College	
<u>S.No</u>	D SRINIVAS GOUD	9963679969	VBIT	
2	Dr. Chokkamreddy Prakash	9030002133	SM GNITC	
3	Dr.D.Mallikarjuna Reddy	9490406646	KSRM College of engineering	
4	Dr.M.Lakshmi Swarupa	9849732190	CVR College of Engineering	AND - 15 AND
5	Jitendra kumar	9733026159	Sikkim Manipal Institute of Technology	CO Part Rd Name of Control
6	Dr. Subhadeep Mukherjee	8910133283	Ramaiah University of Applied Sciences	
7	Bomadevara Kavitha	7396746898	CBIT	CBIT ID-CARD
8	Jyothirmayi Narne	9966006984	CBIT	CBIT ID-CARD
9	Dr.Nagini Yarramsetty	09885053049	CBIT	CBIT ID-CARD
10	Aregela Suchismitha	7702350455	KSRMCE kadapa	Apple of the second secon
11	Irala Lokanandha Reddy	9866539823	University of Hyderabad	
12	Dr.V.Ramesh Babu	9866524514	VNR VJIT	
13	Dr. Varimadugu Aruna	9849831044	CBIT	CBIT ID- CARD
14	Dr. KUNTLA VEERESHAM	96034CHAR41666	VNR VJIT	0
15	Dr. B. Neelakanteshwar Rao	8527901648	VNRVJIET	

List of FEE Collected

			IFHE Hyderabad,	
69	Dr. Sathish Kumar Kurapati	9676309300	UCEOU	
70	Bhukya John Wesley	9848322161	OUC for Women	
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75	Prathyusha	7411255621	Deeksha	
76	P Ram Kishore Kumar Reddy	9966359780	MGIT	
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78	Dr P Lakshmi Supriya	9966374464	MGIT	
79	S M GIRISH KUMAR	9113280166	S G POLYTECHNIC	
80	RATHOD RAMA KRISHNA	995994191	OU	
81	Dr K Vinay Kumar Reddy	9966352545	CBIT	
82	Anusha boda	701323964	OU	
83	Vare Laxman	8331816207	CBIT	
84	Dr. S. Shanmukharao Samatham	8779645133	CBIT	
85	Sreenivasa Reddy Beemi Reddy	9849272455	CBIT	
86	B Linga Reddy	9866755375	CBIT	
87	SRINIVASA RAO NALABOLU	9490067982	MRIT	4301
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90	Dongari Vaani	70932 74630	RGUKT-IIIT BASAR	
91	P Suryanarayana Reddy	+917680892058	Vel tech University	
92	R Ramesh babu	9701430286	KMCE	
93	Dr Srikanth Koniki	6303971241	CBIT	
94	Dr.S.Sivaiah	9885774124	VJIT	
95	MOHAMEDKAMRAN	8073888163	SGP college bellary	And the Annual Annua Annual Annual Annua
96	P Suryanarayana Reddy	+917680892058	Veltech University	21

		1 1274	CVR College	
[Dr. T. Muralidhara Rao	09989214274	CBIT	
124	Dr. L.Mulanakavi	9912868272	K KSU Maharashtra	and the second
125	Brof Harekrushna Agasti	8275394980	CBIT	
126	G Mahender Reddy	9705858351	Yash Technologies	K.) Automatication
127	M. V. R. Kumar	9866613331	GNIT	A CARDON CONTRACTOR
129	RAMISETTI THANUJA	8008218107	Jain college	
	Siddharth Patil	7019451070	Belagavi	
130		7295996603	CBIT Hyderabad	
131	Yawer Abbas Khan Reeravalli Mounika	7981035907	GNII(IBP)	
133	BABAIAH SUGURI	9491272426	UCEOU	Question
34	KURUDI SURESH	09440719191	G.PRCE	
5	Prof.Dr.Suparna Sanyal Mukherjee	06289098226	S S U, Bolpur, Santiniketan.	
6	P Suryanarayana Reddy	+917680892058	Veltech University	
7 1	M. V. R. Kumar	9866615551	Yash Technologies	
97	Dr.M.SRAVAN KUMAR	9963900347	VUT	Augusta suure Augusta suure
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99	M Shanti	09948414018	CBIT	
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104	DEK SKINIVAS	9849552339	JNTUH UCEJ	
105	Dr.Y.Rajashekhar Reddy	9394670666	JNTUH	
105	L.Shirisha	7893192627	JNTUH UCEJ	
106	E.Manogna	9491029819	JNTUH UCEJ	
107	Dr P Lakshmi Sruthi	8885174575	G PREC	Para an ann an Anna an
108	M LAKSHMINARAYANA	9291361918	OU	
109	Kapula Venkata Naveen	9704059131	JNTUH UCEJ	
110	TIPIRISETTI RAKESH	9640939460	UCEOU	Example a construction of the second se
111	Dr.K.RAMESH	9849116946	CCBIT	ar pao
112	MD.SAMREEN SULTHANA	8374299074	GNIT	
113	Dr.Y.Ramadevi	+919441286660	CBIT	
114	Dr Sridevi Tumula	+919703406001	CBIT	
115	CHANDRAGIRI RADHACHARAN	9701352066	JNTUH UCEJ	
116	Kondamurugu Ramesh	9502075207	OU	
117	Dr.Narendra B Mustare	9177673608	CVR	
118	KAMALAKAR.P	9160590741	UCEOU	
119	MD.SAMREEN SULTHANA	8374200074		
120	Dr. Kesavarao Sykam	9010357378		
121	Dr S SHRAVAN KUMAR REDDY	9989828160	CBIT.	An and a second se
12	2 Savitri swathi	9550871596	UCEOU	
123	Suvarna Sudagoni	+919704537679	Scrips Pharma	040



Certificate of Participation

This is to certify that Dr./Mr./Ms. BABAIAH SUGURI of Osmania University, has participated in One week online FDP on "Exploring the Significance of Indian Knowledge Systems (IKS) in the Context of National Educational Policy (NEP) 2020 - The Role of Higher Educational Institutions (HEI)" organized by Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad- 500075, Telangana, India during 05th - 10th February 2024

5 pl Dr. G. Suresh Babu Coordinator

M.B.

Dr. K. Krishnaveni Coordinator

Dr. M. Balasubba Reddy Head - Dept. of EEE

Prof. C. V. Narasimhulu

Principal

One Week FDP/MDP/ Skill Development Programme

on

Managing Business Incubators



19th -23rd February 2024

Jointly Organised By



National Institute for Micro, Small and Medium Enterprises (ni-msme), Hyderabad



Department of EEE, IIC and EDC Chaitanya Bharathi Institute of Technology, Hyderabad

Chief Patron Sri. N. Subash, President, CBIT

Patrons Prof. C. V. Narasimhulu, Principal, CBIT

Convener

Mr. K. Surya Prakash Goud, Faculty Member, SED, NI-MSME, Hyderabad Prof. M. Balasubba Reddy, Professor & HOD, EEE

Chief Advisors

Dr. P. Ravinder Reddy, Professor Mech. & Director & Head of R&E Hub Prof. U. K. Choudhury, Professor EEE & Advisor I & I

Advisors

Prof. K. Krishna Veni, Professor, EEE Prof. P. Venkata Prasad, Professor, EEE & CoE Prof. G. Suresh Babu, Professor, EEE

Coordinators

Dr. Madhulika Das, Assistant Professor, EEE **Dr. Y. A. Khan**, Assistant Professor, EEE

Co-Coordinators

Smt. V. Sandhya, Assistant Professor, Mech Sri C. Srisailam, Assistant Professor, EEE

About CBIT Hyderabad

CBIT is one of the premier Engineering Institutes in India, a pioneer in Telangana State, which is at the idyllic surroundings of Gandipet Lake, Hyderabad. The college offers 12 UG and 10 PG programs. It has been standing as a temple of knowledge for the past 45 years by producing more than 25,000 Eminent and proficient Graduate Engineers, who are successful in their Careers, serving all over the world. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A++' Grade and several programs are accredited by NBA – AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

About EEE Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and has been accredited 5 times since 2004 by NBA. The recent accreditation in 2021 is for 6 years. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems and power Electronics in 2006 with an intake of 18 and was accredited by the NBA in the year 2016. The department has received grants worth around ₹90 lakhs from AICTE under RPS, SPARC, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹21 lakhs in collaboration with Foreign Universities in Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as a Research Centre in 2017 by Osmania University to carry out research for the award of Ph.D. degrees.

Overview of Programme

Over the years, the Institute has gained valuable experience and expertise for MSME promotion in India and the rest of the developing world. NI-MSME's inherent capacity to innovate, together with its state of the art infrastructure, has enabled the Institute to excel in its game changing strategies and instruments of action. This training program is intended to provide opportunities for participants to impart knowledge about incubation ideas. It also helps to promotes self-employment and provides opportunities of training for skilled wage employment.

Objectives of the Programme

- To enlighten the audience with innovation, incubation and entrepreneurship.
- To create awareness about the role of MSME in skill development.
- ✤ To demonstrate how to establish incubation centers.
- To develop 'know how' about of incubation center.
- Introduce the audience with a helping hand in formulating the business plan.

Outcomes of the Programme

On Successful completion of this program, participants will be able to:

- Create young entrepreneurs that can contribute for the positive development of the society.
- Develop the fruitful business plan into the minds of the audience.
- Acquire the knowledge of smoothly managing of the incubation cells.

Timings Morning Session: 9:30 a.m. to 12:00 p.m.

Lunch: 12:00 p.m. to 1:00 p.m.

Afternoon Session: 1:00 p.m. to 4:00 p.m.

Venue

Computer Science and Engineering Seminar Hall (C-203)

Resource Persons

- Mr. K. Surya Prakash Goud, Faculty Member, SED, NI-MSME, Hyderabad
- Mr. Ramana Murthy, Consultant, MSME, Hyderabad
- * Prof. B. Subbarayudu, Principal Scientist, IIMR
- Mrs. Vanamala Swapna, Associate Faculty, Member, SEM, MSME, Hyderabad
- Prof. Umakanta Choudhury, Professor EEE, Advisor I&I, CBIT, Hyderabad, (Former Executive Director, CTM, BHEL)
- Prof. N. V. Srinivasulu, Professor Mech, CBIT, Hyderabad
- Dr. G. N. R. Prasad, Senior Asst. Professor, MCA, CBIT, Hyderabad

Who Can Attend? Faculty, Research Scholars, Students and Industry personnel.

Registration "No Registration Fee"

For Registration & Other Details, Contact: Dr. Madhulika Das, Ph. No: 7980200299 Dr. Y. A. Khan, Ph. No: 7295996603

Note:

- E-Certificates will be given to the participants, who attend all the sessions.
- Tea and lunch will be provided during FDP to the participants.

Registration Form

Managing Business Incubators



19th -23rd February 2024

Jointly Organised By

National Institute for Micro, Small and Medium Enterprises (ni-msme), Hyderabad

and

Department of Electrical and Electronics Engineering Chaitanya Bharathi Institute of Technology, Hyderabad

1.	Name (block letters):
2.	Designation:
3.	Organization:
4.	Mail:
5.	Mobile No:
5.	Address:

Signature of the Applicant

Completed registration forms should be reached to

Dr. Madhulika Das Mail Id: madhulikadas_eee@cbit.ac.in

or

Register using the below given Link https://forms.gle/sMXo2S1NRu8sKs9X7



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Jointly sponsored by ni-msme, Hyderabad and Rajiv Gandhi National Institute of Youth Development, Sriperumbudur – 602 105, Tamil Nadu

REPORT ON Five day workshop On

"Managing Business Incubators"

Coordinated By

Dr. Y. A. Khan, Assist. Prof. EEE Dr. Madhulika Das, Assist. Prof. EEE

ACKNOWLEDGEMENT

Electrical and Electronics Engineering, CBIT (A), Hyderabad and NI-MSME Hyderabad take great pleasure in jointly organizing the Workshop on "Managing Business Incubators".

We show our gratitude for the management of CBIT, Principal Prof. C. V. Narasimhulu, Dr. U. K. Choudhury, Advisor I & I and HOD, EEE Department Dr. M. Balasubba Reddy for their constant support which made the event successful.

We are thankful to our Convenors Mr. K. Surya Prakash Goud, Faculty Member, Ni, MSME and Prof. M. Balasubba Reddy, Professor & HOD, EEE for their continuous guidance which made the event successful.

Our special thanks to Mr. Ramana Murthy, Consultant, MSME, Hyderabad for handling the very useful sessions in the event.

Brochure

One Week FDP/MDP/ Skill **Development Programme Managing Business Incubators**



19th -23rd February 2024

Jointly Organised By



National Institute for Micro, Small and Medium Enterprises (ni-msme), Hyderabad

and



Department of EEE, IIC and EDC Chaitanya Bharathi Institute of Technology, Hyderahad

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E-Certificates will be given to the participants, who attend all the sessions. Tea and lunch will be provided during FDP to the participants.

Managing Business Incubators BUSINESS

19th -23rd February 2024

Jointly Organised By

National Institute for Micro, Small and Medium Enterprises (ni-msme), Hyderabad

Department of Electrical and Electronics Engineering Chaitanya Bharathi Institute of Technology, Hyderabad

1. Name (block letters): 2 Designation 3. Organization: 4. Mail: ..

- 5. Mobile No:
- 6. Address:

Signature of the Applicant

Completed registration forms should be reached to

Dr. Madhulika Das Mail Id: madhulikadas_eee@cbit.ac.in

Register using the below given Link https://forms.gle/sMXo2S1NRu8sKs9X7

Title of the Programme:

FDP/MDP/ Skill Development Programme on Managing Business Incubators

Venue: CBIT, Hyderabad Dates: 19th -23rd February, 2024

Details of Resource Persons

S. No.	Resource Person (with Address,	Session details (Date, Time and No. of Sessions handled)	
	Mobile Number and E-mail Id)	Innerntian In whation & Entremen anglin	
1	March an SED NI MSME Hardandad	Deter 10.02-24	
	Member, SED, MI-MSME, Hyderabad	Date: 19:02:24	
-	M. Damar Musta Constant MCMT	NO. OI SESSION I	
2	Mr. Kamana Murthy, Consultant, MSME,	Sivie Promotion through Skill Development	
	Hyderabad	Date: 19:02:24	
		No. of session 1	
3	Prof. Umakanta Choudhury, Professor	Managing Incubators: Techno-Managerial Services through	
	EEE, Advisor I&I, CBIT, Hyderabad,	Mentoring and networking	
	(Former Executive Director, CTM, BHEL)	Date: 20:02:24	
		No. of session 1	
4	Mr. Ramana Murthy, Consultant, MSME,	SME Promotion through Skill Development (continuation of the	
	Hyderabad	previous session)	
		Date: 20:02:24	
		No. of session 1	
5	Prof. Umakanta Choudhury, Professor	Introduction to IPR and Role of Facilitation Center in	
	EEE, Advisor I&I, CBIT, Hyderabad,	Promotion of Innovation	
	(Former Executive Director, CTM, BHEL)	Date: 21:02:24	
		No. of session 1	
6	Mr. K. Surya Prakash Goud, Faculty	Cluster Development Approach and Promoting Innovation in cluster	
	Member, SED, NI-MSME, Hyderabad	Date: 21:02:24	
		No. of session 1	
7	Dr. G. N. R. Prasad, Senior Asst.	Techno Tools for Business Incubators	
24	Professor, MCA, CBIT, Hyderabad	Date: 22:02:24	
		No. of session 1	
8	Prof. Umakanta Choudhury, Professor	Session and Tutorials on How to prepare a Business Plan and	
(Id.	EEE, Advisor I & I, CBIT, Hyderabad,	Assignment	
	(Former Executive Director, CTM, BHEL)	Date: 22:02:24	
		No. of session 1	
9	Prof. Umakanta Choudhury, Professor	Presentation of Business Plan for a Business Incubator	
12	EEE, Advisor I&I, CBIT, Hyderabad,	Date: 23:02:24	
	(Former Executive Director, CTM, BHEL)	No. of session 1	

Highlights of the FDP

Introduction to Business Incubation

- 1. Definition, types, and significance of business incubators.
- 2. Role of incubators in fostering entrepreneurship.

Setting Up a Business Incubator:

- 1. Key steps in planning and establishing an incubator.
- 2. Infrastructure and resource requirements.
- 3. Identifying and engaging stakeholders.

Operational Management of Incubators:

- 1. Governance and funding models.
- 2. Tenant selection and on boarding processes.
- 3. Designing effective mentoring and support systems.

Sustaining Business Incubators:

- 1. Revenue generation strategies.
- 2. Performance evaluation metrics.
- 3. Building partnerships with industries, investors, and academia.

Legal and Policy Framework:

- 1. Regulatory requirements and compliance.
- 2. Government schemes and support for incubation centers.

Case Studies and Best Practices:

- 1. Analysis of successful incubation models.
- 2. Challenges and solutions in managing incubators.

Participants

A total of 69 members participated in the program, with a good no. of non CBIT participants i.e., participants from other institutes/industry. PhD, PG, and Final Year UG Students from all branches were encouraged to register and attend the session. As a result of it good no. of students participated in the all the sessions.

The speaker made the participants feel better and cleared there queries and doubts wholeheartedly. At the end of session the e-certificates were distributed to the participants.

Outcomes

- Increased awareness and knowledge about managing business incubators.
- Development of action plans by participants to set up or improve incubators in their respective institutions.
- Strengthened collaboration between academia, industry, and government bodies.

CONCLUSION

The program was a great success, and the EEE Department will continue to conduct more of these types of events.

List of Registered Candidates

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Google Form

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Responses of Google form

Analysis of participants on the basis of organization they belong to:

60 responses



Sample of the Certificate given to the participants



PICTURES





