

CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY



(Approved by AICTE, Affiliated To Acharya Nagarjuna University)

Chalapathi Nagar, LAM, Guntur-522034

Accredited by NBA NAAC with 'A' Grade



NEWS LETTER

Department of Electrical and Electronics Engineering

WELCOME: "The Newsletter Welcomes You for the Volume-10, Issue-2, July -Dec 2023"

ABOUT CIET:

Chalapathi Institute of Engineering & Technology (CIET) is located at Lam, Guntur, 5 Km from the heart of the city. The college was established in the year 2007. It is affiliated to Acharya Nagarjuna University and approved by AICTE, New Delhi. The main aim is to create unique environment conducive to learning and committed to excellence. The college bestows an erudite atmosphere crafted with ethics, to adorn the education of the students. The college is geared up with excellent facilities and state-of-the-art infrastructure. It inculcates research attitude within the students and concurrently nurtures them with industry-demanding caliber.

VISION: To emerge as an Institute of Excellence for Engineering and Technology and provide world-class education and research opportunities to the students catering to the needs of society.

MISSION:

- To be a student centric institute imbibing experiential, innovative and lifelong learning skills with academic rigor
- To produce graduates who are knowledgeable, innovative and empathetic.
- To inculcate entrepreneurial attitude and values amongst Learners.

ABOUT EEE DEPARTMENT:

The Department of Electrical and Electronics Engineering lays emphasis on Teaching and Research activities in diversified areas thereby, moulding the students to be Analytical Thinkers, Skilled Communicators and Ethical Leaders.

VISION: To generate professionally competent, research oriented and eminent technocrats towards the development of state of art products and technologies to face the perpetual requirements of the society and to inculcate the notion of entrepreneurship in the minds of students

MISSION:

DM1: Provide the domain expertise and state of art infrastructure.

DM2: Provide advanced application/research oriented engineering laboratories, for Research and product development.

DM3: Offer a platform for industry orientation to become successful service oriented technocrats.

HOD's Message

I am happy to note that the magazine brought out in our EEE department is of good quality and taste. Hearty congratulations to the editorial team. The Department's main objective is to conduct competitive research and deliver high quality teaching. We want to develop graduate engineers with the skills, knowledge and imagination to help shape our country. The zeal and fervor with which the department is working will surely achieve many more things in the future as 'Research Centre of Excellence', 'Accreditation', and 'Autonomy'.



Dr. P.V. Narendra Kumar
Assoc. Professor & HOD

Our greatest weakness lies in giving up. The most certain way to succeed is to try just one more time

-Thomas A. Edison

DEPARTMENT ACTIVITIES

- The Department of electrical and electronics engineering organized a one-day seminar on “Electrical consumption and safety” on 18-07-2023



- The Department of electrical and electronics engineering organized seminar on “Optimum Generation of Power from Thermal Power Plants” on 18-08-2023.



- The Department of electrical and electronics engineering celebrated teachers on 05-09-2023

- The Department of electrical and electronics engineering Distributed one month's Groceries to Mathrusri Children Orphanage On 09-09-2023



- The Department of electrical and electronics engineering celebrated Engineer's Day on 15-09-2023.



- The Department of electrical and electronics engineering celebrated Dussehra on 21-10-2023



- The Department of electrical and electronics engineering Conducted Chess Competition on 31-10-2023



- The Department of electrical and electronics engineering Organized Quiz Competition on 11-11-2023



FACULTY ACHIEVEMENTS

Award

1. **Dr P V Narendra Kumar** Achieve “Active SPOC of SWAYAM-NPTEL Local Chapter” from IIT-MADRAS during Jul-Dec 2023.
2. **Dr P V Narendra Kumar** Achieve “NPTEL TOPPER” award in the course “Cloud Computing” during Jul-Dec 2023.
3. **Dr. Manne Bharathi** received the Best Mentor award as a token of appreciation for their notable contribution for the project “An Eco-Friendly Solar-Energy Based Insect Pest Trap” during the successful organization of IEEE YESIST12 Grand Finale from 2nd - 3rd September 2023, held at Arab Academy for Science, Technology & Maritime Transport, EGYPT Section.
4. **Dr. Manne Bharathi**, Udochukwu Bola Akuru, and Durga Prasad (L20EE1250), received the honor of appreciation from IEEE Advancing Technology for Humanity, IEEE South Africa Section.
5. **Mrs. M. Susmitha** received Best Faculty Award of EEE from CIET

Patent

1. **Dr P V Narendra Kumar** had filed a patent on “Machine Learning and IoT based Automatic prediction and diagnosis of Lung cancer using neural network ensemble with histogram of oriented gradient genomic features” and is accepted and published on 18th August 2023.
2. **Mr.K Murali Krishna Raju** has patent design on “A Deep-Learning Based Automated Smart Nutrition Monitoring System For Health Care Management Systems For All Age People Using Artificial Intelligence And Iot” is published 23rd November 2023.
3. **Mr. T Venkatesh** has patent design on “AI Based Plant Extract Analyzing Device to Identify Disease” is published 23rd November 2023.
4. **Mr. T Venkatesh** has patent design on “Solar and Wind Powered Electric Vehicle” is published 14th December 2023.

Book Chapter:

1. **Dr. Manne Bharathi**, “Advancements in 3D printing and Additive Manufacturing Techniques Through integration with Finite Element Analysis” 8th *European Conference on 3D Printing & Additive Manufacturing*, Oct- 02 to 03, 2023, Amsterdam, Netherlands.

Projects and Grants

1. **Dr. Manne Bharathi**, Udochukwu Bola Akuru, and S. Durga Prasad (L20EE1250), Won the Runner Prize in IEEE YESIST12-2023 Global Competition under the WePOWER Track (WPD232430) for their project ‘Eco-Friendly Solar Energy Based Insect Pest Trap.’ They received the prize amount and travel grant of \$750. The Competition was organized at Arab Academy for Science, Technology & Maritime Transport (AASTMT), Egypt, September 2 & 3, 2023 and was sponsored by IEEE Computer Society, World Bank under SAGE Initiative Program. **Dr Manne Bharathi** was on ground to receive the plaque on behalf of the team at Arab Academy for Science, Technology & Mari time Transport, Egypt.

Link: <https://ieeyesist12.org/achievers/>

Link: https://www.linkedin.com/pulse/kl-alumna-clinches-second-place-global-sustainable-development/?utm_source=share&utm_medium=member_android&utm_campaign=share_via

Link:

https://www.instagram.com/p/Cydp3cGPzFD/?igsh=MW5uMDIyaWZ4eXVhdA%3D%3D&img_index=1

2. **Dr. Manne Bharathi**, and Dr. M. Chandra Sekar's project have been nominated for YUKTI Innovation Challenge and were presented at Institutional Innovation Council (IIC), MoE's Innovation Cell Regional meet, Organized at Koneru Lakshmaiah Educational Foundation (KLEF), Guntur, Andhra Pradesh, 6th Jan 2024.

Guest Lecture/ Oral Presentation

1. **Manne Bharathi**, acted as an oral virtual presenter on '**Advancements in 3D Printing and Additive Manufacturing Techniques through Integration with Finite Element Analysis**' at the *8th European Congress on 3D Printing & Additive Manufacturing*, held during October 02-03, 2023, in Amsterdam, Netherlands, organized by Coalesce Research Group. Link: <https://3dprintingconferences.com/>
Link: <https://www.youtube.com/watch?v=0eYTpU095L4>

Publications:

1. B. Nagi Reddy, **Manne Bharathi**, Y. Anil Kumar, Ch. Rami Reddy "Five Level H-Bridge Configuration Based Microgrid with Sugeno Fuzzy Controller for New Energy Generation from Renewable Systems" *Transaction on energy Systems and Engineering Applications*, vol.no: 4(2), pp:4-14, July 2023 (**Scoups**). DOI: <https://doi.org/10.32397/tesea.vol4.n2.521>
Link: <https://revistas.utb.edu.co/tesea/article/view/521>
2. V. Kulshrestha, K. Nova, M. Padmarasan, N. K. Alla, **T. Venkatesh** and B. K. K. Rao, published a paper on "Multi-Mode Predictive Energy Management for Fuel Cell Hybrid Vehicle Using Markov," on International Conference on Sustainable Emerging Innovations in Engineering and Technology (ICSEIET),979-8-3503-2919-3/23©2023IEEE, doi: 10.1109/ICSEIET58677.2023.10303324.

NPTL Coerces:

1. **Dr P V Narendra Kumar** has completed NPTEL Online Certification course and successfully completed with ELITE + SILVER grade for the course "Research Methodology" during Jul-Dec 2023.
2. **Dr P V Narendra Kumar** has completed NPTEL Online Certification course and successfully completed with ELITE + SILVER grade for the course "Cloud Computing" during Jul-Dec 2023.
3. **Mr. K. Murali Krishna Raju** has completed NPTEL Online Certification course on Emerging Technologies in Renewable Energy Sources.
4. **Mr. T Venkatesh** successfully completed NPTEL Online Certification course with ELITE grade for the course Introduction to Internet of Things.
5. **Mr. T Venkatesh** successfully completed NPTEL Online Certification course Cloud Computing
6. **Mr. B Bala Krishna** successfully completed NPTEL Online Certification course " Advance Power Electronics And Control " in Jul-Sep 2023
7. **Mrs.M.Susmitha** got NPTEL Online Certification for successfully completing the course Cloud Computing.
8. **Mrs.M.Susmitha** got NPTEL Online Certification for successfully completing the course Fuzzy Sets, Logic and Systems & Applications

9. **Mrs.M.Susmitha** got NPTEL Online Certification for successfully completing the course Soft Skill Development.

Seminars / Webinar

1. **Dr. Manne Bharathi** successfully participated in One-Day International Seminar on “**Research Methodology Practice**” organized by **Research India Foundation** in Bhubaneswar, Odisha, India, 31st December 2023.
2. **Mr. K.Murali Krishna Raju** has Successfully attended the Webinar on “**Use of AI/ML in Real World**” organized by Computer Science and Technology Department of Dr. B. C. Roy Polytechnic on 28th August 2023
3. **Mrs.M.Susmitha** has Successfully Participated & Completed Three Days Workshop On “**Artificial Intelligence**” Held On 21st – 23rd September 2023.
4. **Mrs.M.Susmitha** has Successfully Participated & Completed Three Days Workshop On “**Recent Research Advances On Solar Energy**” Held On 04th – 06th October 2023.

Workshops

1. **Dr P V Narendra Kumar** has Successfully Participated in a three-Day workshop on “**Recent Research Advances on Solar Energy**”, organized by Department of Electrical and Electronics Engineering, Chalapathi Institute of Engineering & Technology, Andhra Pradesh from 04th to 06th October 2023.
2. **Dr P V Narendra Kumar** has Successfully Participated in a three Day workshop on “**Artificial Intelligence**”, organized by Department of CSE-AI, Chalapathi Institute of Engineering & Technology, Andhra Pradesh from 21st Sep 2023
3. **Mr. Murali Krishna Raju** has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “**Certain Aspects of Electric Vehicles to achieve Sustainable Energy**” at VIGNAN'S LARA INSTITUTE OF TECHNOLOGY & SCIENCE from 11/12/2023 to 16/12/2023.
4. **Mr. K.Murali Krishna Raju** Has Successfully Participated & Completed Two Days International Workshop On “**Recent Trends In Nuclear Science & Material Science**” Held On **5th & 6th September 2022**.
5. **Mr. T Venkatesh** has Successfully Participated Ten days workshop (online) “**Microsoft Azure AI Fundamentals**” Organized by Center for Artificial Intelligence and Deep Learning SR University, in association with Electraify Club, Department of Electrical and Electronics Engineering From 11.12.2023 To 15.12.2023

FDP Attended

1. **Dr P V Narendra Kumar** has Successfully Participated in a Five Days FDP on “**Future Trends and Advances in Electrical Engineering**”, organized by Department of Electrical and Electronics Engineering, Aditya Engineering College, Andhra Pradesh from 05th to 09th July 2023
2. **Dr P V Narendra Kumar** has Successfully Participated in an One week FDP on “**Power Converters and Control Techniques for Micro Grids and Electric Vehicles**”, organized by Department of Electrical and Electronics Engineering, St. Ann’s College of Engineering & Technology, Andhra Pradesh from 11th to 16th December 2023

3. **Dr. Manne Bharathi** attended the One-Week International FDP- Cum-Workshop on “**Doctoral Research**” organized by Research India Foundation in Bhubaneswar, Odisha, India, from 23-30th December.
4. **Mr. K.Murali Krishna Raju**, was Attended information security education Awareness project phase-II, programmed by ministry of electronics & information technology, government of India. They successfully completed the requirements for cyber hygiene practices and certified as **Cyber Hygiene Practitioner**. On 01/10/2022
5. **Mr. K.Murali Krishna Raju** has participated in A One Week National Level Faculty Development Program on “Recent Advances in Electronics and Communication Engineering – An approach through AI &ML” during 21st to 26th August 2023.
6. **Mr. K.Murali Krishna Raju** has attended One Week Short Term Training Program on “**Electrical CAD Design**” held from 26th June 2023 to 1st July 2023 organized by the Department of Electrical and Electronics Engineering, Bapatla Engineering College,
7. **Mr.B Bala Krishna** attended online FDP on " **Future Trends And Advances In Electrical Engineering** " conducted by Aditya Engineering College , Surampalem India from 05-07-2023 TO 09-07-2023
8. **Mr. T Venkatesh** Participated One-Week International Virtual Faculty Development Programme on 'Interdisciplinary Concepts'. organized by the department of English, School of Sciences, SR University, Warangal from 27th November 2023 to 2nd December 2023.
9. **Mrs.M.susmitha** attended IEEE CIS Summer School/FDP on "Soft Skill Development" held at NPTEL-AICTE, India from December JULY to SEP 2023, sponsored by IEEE Computational Intelligence Society
10. **Dr P V Narendra Kumar** attended NPTEL-AICTE FDP on “Research Methodology ” from July-October-2023.
11. **Dr P V Narendra Kumar** attended NPTEL-AICTE FDP on “Cloud Computing" from July-October-2023.
12. **Mr. T Venkatesh** attended NPTEL-AICTE FDP on " Introduction to Internet of Things " from July-October-2023.
13. **Mr. T Venkatesh** attended NPTEL-AICTE FDP on " Cloud Computing" from July-October-2023.
14. **Mr.B Bala Krishna** attended online FDP on " Advance Power Electronics And Control " conducted by AICTE Through NPTEL program (Jul-Sep 2023)



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