

INNOV IT



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

45
years

Department of Information Technology, Newsletter

VOLUME 1 ISSUE 2



Prof. P. Ravinder Reddy
Principal - CBIT

FROM OUR PRINCIPAL

CBIT has established itself as one of India's premier private engineering institutions, renowned for academic excellence, innovation, and outstanding student achievements. It is a privilege to welcome students to an institution committed to nurturing skilled, creative, and socially responsible engineers equipped to meet the challenges of Industry 4.0. Through a flexible curriculum aligned with the National Education Policy, CBIT fosters creativity, research, entrepreneurship, and experiential learning. The institute provides a vibrant ecosystem with startup incubation, industry collaborations, internships, research opportunities, sports, clubs, and personality development initiatives to ensure holistic growth. With state-of-the-art infrastructure and dedicated faculty, CBIT strives to empower students to excel professionally and contribute meaningfully to society while upholding the institute's legacy of excellence.

FROM OUR HOD



The Department of Information Technology at CBIT is dedicated to excellence in teaching, research, and innovation. Established in 2001, the department provides a strong academic foundation through modern laboratories, experienced faculty, and an industry-oriented curriculum. It emphasizes continuous learning, research, technical competence, leadership, and ethical values while nurturing students to become confident, globally competitive professionals and responsible citizens. Through technical events, skill development, and industry interaction, the department prepares students to meet the challenges of rapidly evolving technologies and contribute meaningfully to society.

Faculty Coordinators:

1. Mr. Rudroju Sai Venkat
Assistant Professor
2. Mr. Geedikanti Srikanth
Assistant Professor

Student Coordinators:

1. Adarsh Shetkar
2. Harsha Vardhan



Dr. Rajanikanth Aluvalu
HoD - IT Department

ABOUT CBIT & THE IT DEPARTMENT

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>>> INSTITUTIONAL FRAMEWORK

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted by a Group of Visionaries from varied Professions of Engineering, Medical, Legal and Management, with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan.

STRATEGIC VISION

To be a globally recognized center of excellence in Information Technology education and research that nurtures innovative professionals, promotes technological advancement, and develops skilled graduates capable of addressing real-world challenges and contributing to societal and national development.

>>> OUR MISSION

The department is committed to quality, industry-oriented education through advanced teaching, practical learning, and research. It fosters innovation and entrepreneurship through industry collaboration, developing technically proficient, ethical, and socially responsible professionals for the digital era.



FACULTY ADVANCEMENT



FDP's Organized:

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME ON "QUALITY EDUCATION THROUGH OUTCOME-BASED EDUCATION (OBE)" (22-01-2024 TO 27-01- 2024.)

The One Week Online Faculty Development Programme on "Quality Education through Outcome-Based Education (OBE)" was organized by CBIT from 22nd to 27th January 2024. The programme focused on strengthening faculty understanding of Outcome-Based Education principles, including curriculum design, formulation of Course Outcomes (COs) and Program Outcomes (POs), assessment strategies, attainment calculations, and continuous quality improvement. The FDP enabled participants to adopt effective OBE practices aligned with accreditation requirements and enhance the overall quality of teaching and learning. Around 20 participants attended this National-level programme. The FDP was coordinated by Prof. Rajanikanth Aluvalu.

ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON "DEEP LEARNING SOLUTIONS IN HEALTHCARE" (19-02-2024 TO 23-02-2024)

The One Week Faculty Development Programme on "Deep Learning Solutions in Healthcare" was organized by CBIT from 19th to 23rd February 2024. The programme provided participants with insights into the application of Deep Learning techniques in the healthcare domain, including medical image analysis, disease prediction, diagnostic support systems, healthcare data analytics, and AI-driven clinical decision-making. Expert sessions highlighted recent research trends, practical implementation using deep learning frameworks, and real-world healthcare applications. The National-level FDP was attended by 50 participants and was coordinated by Dr. M. Venu Gopala Chari, Dr. S. Rakesh, and Ms. Kiranmaie P.

National FDP on Deep Learning Solutions in Healthcare Commences at CBIT

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The inaugural session of the National Level One-Week Faculty Development Program (FDP) on Deep Learning Solutions in Healthcare began at CBIT's Department of Information Technology. Esteemed industry and academic figures marked the event's commencement, promising an insightful week for participants.

Sri Amol R Kulakarni, Senior Manager Analytics at Providence India, served as the Chief Guest, sharing expertise on deep learning's application in healthcare. Prof. C V Narasimhulu, Principal of CBIT, emphasized industry-academia collaboration's importance in leveraging deep learning's potential in healthcare. Prof. Rajanikanth Alu-



valu, the FDP convener, welcomed dignitaries and participants, expressing optimism about the program's impact on participants' skills in healthcare deep learning applications.

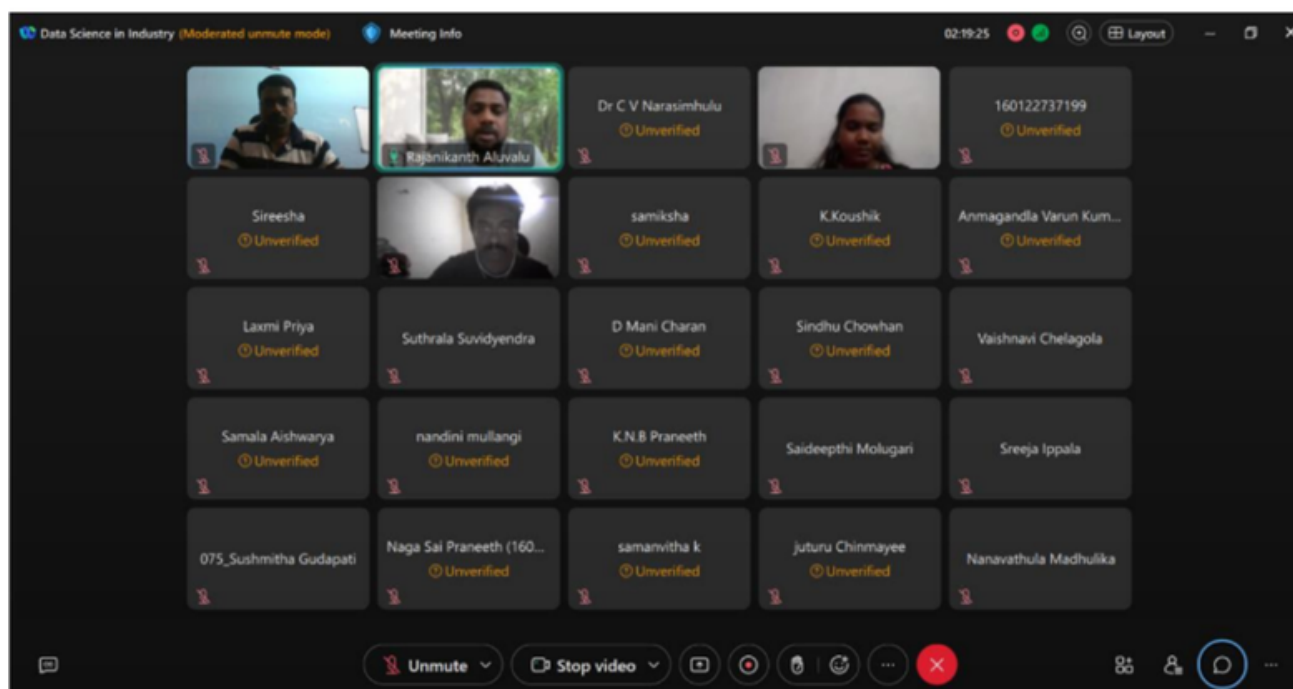
Coordinators Prof. M. Venu Gopalachari, Dr. S. Rakesh, and Ms. P Kiranmaie ensured a platform for meaningful discussions. The FDP aims to

equip faculty and researchers with the latest in healthcare deep learning through hands-on sessions and expert lectures.

The event's broad interest reflects deep learning's increasing importance in healthcare innovation. Participants and organizers anticipate a week of knowledge-sharing and skill development.

ONE-WEEK ONLINE STUDENT WORKSHOP ON "ORIENTATION OF LATEST TECHNOLOGIES:"

The Department of Information Technology organized a one-week online workshop on "Orientation of Latest Technologies" from 29 January to 3 February 2024, coordinated by Dr. N. Sudhakar Yadav and Dr. S. Rakesh. The workshop witnessed the active participation of 250 students and featured distinguished industry experts including Mr. Siva Manne, Mr. Yash (Yash Technologies), Mr. Raja Onteru (Cognizant), Mr. Mallikarjuna (Microsoft), Mr. Hari Krishna (TCS), Mr. K. Veera Reddy (Cyberaegis IT Solutions), and Ms. Sireesha Jasti (TCS). The sessions focused on Cloud Computing and Microsoft Azure, providing students with valuable industry insights and hands-on exposure to emerging technologies.



10 DAYS AWS CLOUD TRAINING PROGRAM

A 10-day AWS Cloud Training Program was conducted by the Department of Information Technology from 11 March to 24 April 2024 under the coordination of Dr. N. Sudhakar Yadav, Dr. S. Rakesh, and Mr. U. Sai Ram. The program benefited 40 students and was delivered by Mr. K. Veera Reddy, Cloud Consultant from Cyberaegis IT Solutions, Hyderabad. The training emphasized Cloud Computing using Amazon Web Services (AWS), enabling participants to gain practical knowledge of cloud infrastructure, deployment, and industry-standard cloud services.

CBIT ended 10-day AWS Training with online valedictory ceremony proudly

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HYDERABAD

The Department of Information Technology at Chaitanya Bharathi Institute of Technology (CBIT) proudly concluded its 10-day AWS Training Program with a grand valedictory ceremony in online mode. This intensive training was designed to equip participants with cutting-edge skills in cloud computing using Amazon Web Services (AWS).

The event featured Mr. K. Veera Reddy, a distinguished Cloud Architect from Cyberaegis IT Solutions Pvt. Ltd., as the Resource Person. His expert guidance throughout the program has been invaluable to the participants, providing them with practical knowledge and hands-on experience in AWS technologies.

The valedictory ceremony was graced by the presence of Prof. C. V. Narasimhulu, Principal of CBIT, who served as the Chief Guest. Prof. M. Venu Gopalachari, Head of the IT Department, also attended the event, emphasizing the impor-



tance of such training programs in the evolving technological landscape.

In his address, Prof. Narasimhulu highlighted the critical role of cloud computing in today's IT industry and applauded the efforts of the IT department in organizing this program. Prof. Venu Gopalachari echoed these sentiments, stressing the necessity of continuous learning and skill enhancement for students and professionals alike.

The coordinators of the program, Dr. N. Sudhakar Yadav, Dr. S. Rakesh, and Mr. U. Sai Ram, were commended for



their dedication and meticulous planning, which ensured the smooth execution and success of the training program. Participants expressed their gratitude for the opportunity to learn from industry experts

and acknowledged the comprehensive curriculum that covered various aspects of AWS, including computing, storage, and database management services.

ETHICAL HACKING - A TWO-DAY HANDS-ON WORKSHOP

The Department of Information Technology organized a two-day hands-on workshop on "**Ethical Hacking**" on 15 and 16 April 2024, coordinated by Ms. P. Kiranmaie, Dr. D. Jayaram, Dr. S. Rakesh, and Mr. V. Santosh. The workshop was attended by 75 students and was conducted by Mr. Ajinkya Lohakare, Certified Ethical Hacker and CTO of Ditto Security Pvt. Ltd. The sessions provided practical training in ethical hacking, cybersecurity, vulnerability assessment, and penetration testing, equipping students with essential cyber defense skills.



S. No	Title of the Event	Host Institute	Organised
1	Guest Lecture	IT DEPT	1
2	Workshops	IT DEPT	2
3	FDP Organised	IT DEPT	2
4	Industry Training	IT DEPT	1

RESEARCH & CERTIFICATION METRICS

The Department of Information Technology continues to promote research excellence and academic growth through publications in reputed journals and conferences. Faculty members and students actively contribute to research areas including Artificial Intelligence, Machine Learning, Robotics, Data Science, Software Engineering, Cyber Security, and emerging computing technologies. These research contributions reflect the department's commitment towards innovation, knowledge creation, and industry-relevant advancements.

The department also encourages students to enhance their technical skills through national-level certification programs, including NPTEL and other professional certifications, helping them strengthen their expertise and improve career readiness.

During the academic year 2023-2024, students of the Department of Information Technology successfully completed various NPTEL national-level certification courses, demonstrating their commitment towards continuous learning and skill development. These achievements reflect the department's focus on industry-oriented learning, technical competency, and preparing students for future professional challenges.

Publications	Number of Papers
SCIE	6
SCOPUS Journal	21
International conferences	8
Book Chapters	5

NPTEL CERTIFICATION: 2023 - 2024

Academic year	Year Student is studying	Count of NPTEL certification
2023-2024	II	4
	Total	4

HACKATHON SUCCESS & ACHIEVEMENTS

Chegu Gnana Manikanta Arun Siva Teja actively represented the Department of Information Technology by participating in several prestigious hackathons and innovation-driven events during December 2023. He participated in Udvikash 2023, a State-level hackathon, held on 1 December 2023, where he showcased innovative ideas and strengthened his problem-solving and teamwork skills by addressing real-world challenges. Continuing his pursuit of industry exposure, he participated in the PepsiCo Campus Conclave, an International-level event conducted on 14 December 2023, which provided valuable insights into emerging industry trends, leadership, innovation, and career opportunities through interactions with global professionals. He also participated in Hack The Verse, a State-level hackathon organized on 16 December 2023, where he collaborated with fellow participants to develop technology-driven solutions, enhance his coding and analytical skills, and gain practical experience in solving real-world problems. His active participation in these events reflects his enthusiasm for continuous learning, innovation, and professional development while bringing recognition to the department.

SNo	Name of the Student	Name of the Event	State/National/International level	Date of the Event	Name of the award(if any)
1	Chegu, Gnana Manikanta, Arun, Siva Teja	Udvikash 2023	State	01-Dec-2023	Participation
2	Chegu, Gnana Manikanta, Arun, Siva Teja	Pepsico Campus Conclave	International	14-Dec-2023	Participation
3	Chegu, Gnana Manikanta, Arun, Siva Teja	Hack The Verse	State	16-Dec-2023	Participation

GUEST LECTURES



GUEST LECTURE ON "5G TECHNOLOGY-BASED IOT ENABLEMENT FOR INDIAN AGRICULTURAL SOLUTIONS AND USE CASES"

A Guest Lecture on "5G Technology-based IoT Enablement for Indian Agricultural Solutions and Use Cases" was organized on 18 May 2024 by the Department of Information Technology under the coordination of Dr. K. Sugamy, Ms. E. Ramalakshmi, and Ms. T. Madhuri. The lecture was attended by 80 students and delivered by Dr. M. Nagamani, Senior Assistant Professor, School of Computers & Information Sciences, University of Hyderabad. The session focused on IoT applications in agriculture, highlighting how 5G technology can enable smart farming solutions, improve productivity, and support sustainable agricultural practices.

