Volume 19

Issue 01

VARDHAMAN
COLLEGE OF ENGINEERING

Bits & Bytes

JULY 2024 - DECEMBER 2024

DEPARTMENT OF INFORMATION TECHNOLOGY

VARDHAMAN
COLLEGE OF ENGINEERING

Vision & Mission:

Vision of the Department:

To evolve as a center of academic excellence with ethical values in the field of Information Technology to meet global needs.

Mission of the Department:

- To mould young graduates to unleash their abilities for innovation and demands of the industry.
- To train students to take up diverse career paths.
- To develop interpersonal skills through participation in the process of technology transfer.
- To inculcate innovative thinking through collaborative research.

Program Educational Objectives (PEOs):

- PEO1:GraduateswillbeabletoexcelasITProfessional with Proficiency in understanding, applying, analysing and designing solutions to Information Technology relevant problems.
- PEO2:Graduates will be able to pursue higher studies with good knowledge in core areas of Information Technology and promote collaborative research.
- PEO3:Graduates will be able to exhibit professionalism, teamwork, leadership skills and exposure to current needs.
- PEO4:Graduates will be able to excel as entrepreneurs with the potential knowledge to design software- based solutions for societal needs.

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CREATIVE TEAM

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WELCOME TO BIS & BYTES NEWS LETTER

Editor Notes

The academic year 2024–25 has been marked by a strong emphasis on emerging technologies, ethical awareness, and career readiness, as reflected in a series of national-level programs, professional development initiatives, and expert talks. These events collectively demonstrate a forward-looking academic culture that seeks to empower both faculty and students with relevant knowledge, practical skills, and a responsible mindset toward technology use.

The Professional Development Program on "Developing Intelligent IoT Systems: From Sensors to Servers" (22–27 July 2024) set the tone for technology-driven learning. Internet of Things (IoT) continues to transform industries ranging from healthcare to smart cities. This program helped participants understand the complete IoT ecosystem—from data collection through sensors to processing on servers—bridging the gap between hardware and software domains. Such interdisciplinary exposure is essential in preparing learners to design real-world intelligent systems.

Equally important was the Guest Talk on "Ethical Use of AI Tools for Academic Writing" (27–28 August 2024), organized with professional bodies. As AI tools become increasingly accessible, their ethical use in academics is a pressing concern. This session sensitized participants to issues such as plagiarism, authorship integrity, and responsible AI-assisted writing. By promoting ethical awareness, the program reinforced that technology must be guided by values and accountability.

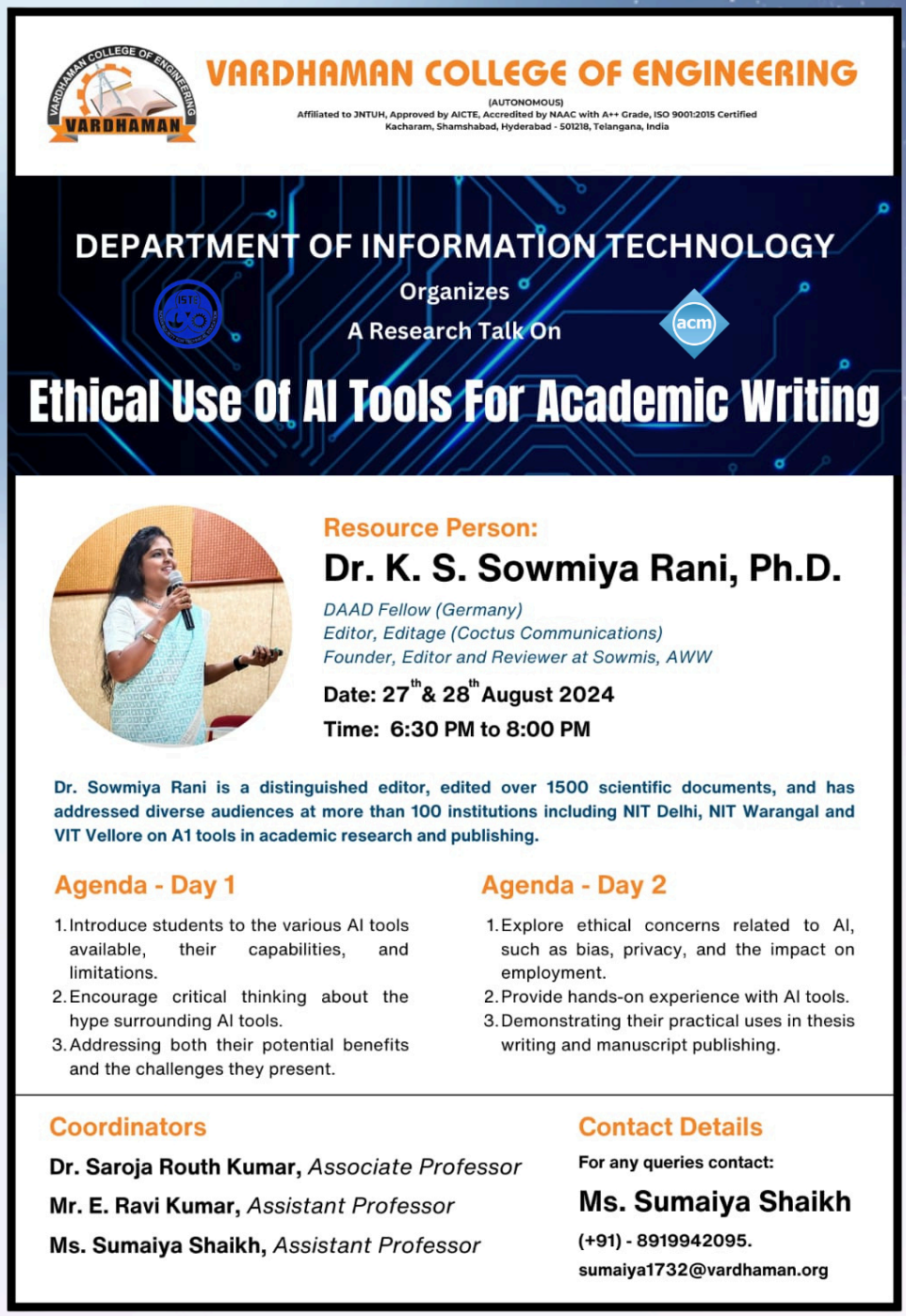
– Venkatesh Kavididevi
Assistant Professor,
Department of Information Technology
Vardhaman College of Engineering

kavididevi Venkatesh

Events and Programs Organized for Students

IEEE / ISTE / TAIT / ACM Student Chapters

The Guest Lecture on "Exploring AI: Opportunities, Career Growth and Essential Skills" (10 August 2024) provided valuable insights into the rapidly expanding AI landscape. Beyond technical knowledge, it highlighted the skills required to remain competitive—such as critical thinking, continuous learning, and adaptability. For students, this session served as both inspiration and guidance in navigating AI-related career paths.



Career-focused initiatives formed another strong pillar this year. The Guidance Program on "Career Opportunities after B.Tech" (7 October 2024) and a similar session later in October addressed a crucial student need: clarity about future pathways. These programs exposed learners to higher education options, public and private sector roles, entrepreneurship, and emerging technology careers. By offering structured guidance, these initiatives supported informed decision-making among graduates.

Cybersecurity and machine learning were brought together in the PDP on "Trends in Threat Analysis of Cyber-Attacks in Machine Learning" (23–28 October 2024). With the growing sophistication of cyber threats, understanding how machine learning can both defend against and be vulnerable to attacks is highly relevant. This program enhanced awareness of modern security challenges and research directions in cyber defense.

Taken together, these events reflect a holistic approach to education—balancing technical advancement, ethical responsibility, and career preparedness. They highlight the institution's commitment to nurturing not just skilled engineers, but thoughtful professionals ready to contribute positively to society. As technology continues to evolve, such initiatives ensure that the academic community remains informed, responsible, and future-ready.

PROFESSIONAL GROWTH & CAREER PREPAREDNESS

The collective impact of these programs has significantly contributed to nurturing confident, skilled, and future-ready graduates

Key programs covered emerging areas

The academic year witnessed a series of well-structured national-level programs, professional development activities, and expert lectures aimed at strengthening professional growth and career preparedness among faculty and students. These initiatives were carefully aligned with emerging technological trends, ethical academic practices, and evolving industry expectations, ensuring a holistic development environment.

A major focus area was emerging technologies and practical skill development. Programs on Intelligent IoT systems, Artificial Intelligence, and Machine Learning-based cyber threat analysis provided participants with exposure to real-world applications and current research directions. By covering the complete lifecycle of technologies—from sensors to servers, from AI tools to cybersecurity analytics—these programs enhanced technical competence and encouraged innovation-oriented thinking. Such exposure equips learners with the skills required to meet modern industry standards.

Another important dimension was ethical and responsible technology usage. The guest talk on ethical use of AI tools for academic writing played a crucial role in guiding participants on maintaining academic integrity in the age of generative AI. Awareness of responsible AI usage, plagiarism concerns, and proper attribution fosters a culture of honesty and professionalism—qualities highly valued in both academia and industry.

The institution also emphasized career awareness and future planning. Multiple guidance programs on career opportunities after B.Tech helped students explore higher education prospects, competitive examinations, entrepreneurship, and roles in emerging technology sectors. These sessions reduced uncertainty among students and enabled them to make informed career decisions aligned with their interests and strengths.

Guest lectures on AI opportunities and essential skills further supported career readiness by highlighting the importance of continuous learning, adaptability, and interdisciplinary knowledge. Students gained clarity on the competencies required in today's job market, including problem-solving ability, communication skills, and technical specialization.

By promoting lifelong learning and professional excellence, the institution continues to build a strong foundation for student success in a competitive global environment.

ONE WEEK ONLINE PROFESSIONAL DEVELOPMENT PROGRAMME on "DEVELOPING INTELLIGENT IoT SYSTEMS: FROM SENSORS TO SERVERS"

Duration: 22.07.2024 to 27.07.2024

The One-Week Online Professional Development Programme on Developing Intelligent IoT Systems: From Sensors to Servers was organized from 22nd July 2024 to 27th July 2024 to equip faculty members with the skills and knowledge required to develop, implement, and manage Internet of Things (IoT) systems. The programme aimed to provide an in-depth understanding of the IoT ecosystem, covering concepts from fundamental building blocks to advanced system integration and application development.

The programme was sponsored by the IEEE PELS Chapter and conducted under the banner of Vardhaman College of Engineering (Autonomous), Hyderabad. The curriculum was carefully designed to progressively build participants' knowledge, starting from basic IoT concepts and moving toward intermediate and advanced topics.

The sessions were handled by experts from the National Small Industries Corporation (NSIC), Technical Services Centre, Hyderabad, a Government of India enterprise under the Ministry of MSME. Their expertise and practical insights into IoT technologies provided a comprehensive and enriching learning experience for the participants.

The primary objective of the programme was to expose participants to various IoT technologies, tools, and platforms while also providing hands-on experience in building IoT systems. Throughout the programme, participants learned about essential IoT components such as sensors, microcontrollers, communication technologies, and cloud platforms.

Participants were also introduced to tools for designing and simulating IoT systems, enabling them to implement real-world applications in domains such as smart homes, healthcare, and industrial automation. Advanced sessions covered topics like cloud data integration, communication protocols, and remote device management.

STUDENT'S PARTICIPATIONS IN PROFESSIONAL EVENTS

Active participation in professional events plays a vital role in enhancing students' academic exposure, technical competence, and professional skills. During the academic year 2024–25, students of the institution actively participated in various programmes organized under reputed professional bodies such as IEEE, ACM, and ISTE at the national level.

These events included Professional Development Programmes (PDPs), guest talks, guest lectures, and guidance programmes focusing on emerging technologies, ethical practices, career opportunities, and skill development.

Outcomes

- Enhanced technical knowledge in IoT, AI, Machine Learning, and Cybersecurity
- Improved awareness of ethical and professional practices
- Better clarity on career opportunities and industry expectations
- Strengthened problem-solving and analytical skills
- Increased motivation for research and innovation

Students' participation in these professional events significantly contributed to their academic enrichment and career readiness. Such initiatives bridge the gap between classroom learning and industry expectations, promoting holistic student development. Continued encouragement of student involvement in professional society activities will further enhance their technical and professional growth.

"These initiatives emphasize practical exposure, ethical technology use, and career-oriented learning to prepare students for dynamic industry demands."

S. No	Name of the Professional Societies	Name of the event	National/ International level	Date of Event
1	IEEE	PDP on" Developing Intelligent IoT Systems: From Sensors to Servers"	National	22-07-2024 to 27-07-2024
2	ACM,ISTE	Guest Talk on "Ethical Use of AI Tools for Academic Writing"	National	27-08-2024 to 28-08-2024
3	ISTE	Guest Lecture on "Exploring AI: Opportunities, Career Growth and Essential Skills"	National	10-08-2024
4	IEEE	A Guidance Program on "Career Opportunities after B.Tech"	National	07-10-2024
5	IEEE	PDP on "Trends in threat analysis of cyber-Attacks in Machine Learning"	National	23-10-2024 to 28-10-2024
6	ISTE	A Guidance Program on Career Opportunities after B.Tech	National	29-10-2024

Student Publications

The students of the Department of Information Technology demonstrated strong research engagement through active publication in reputed IEEE and Springer international conferences. These publications reflect the department's growing research culture and emphasis on innovation and scholarly contribution.

A large number of VII and VIII semester students successfully presented and published papers with DOI indexing, showcasing the quality and credibility of their research work. Major conferences included the International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU 2024), IEEE SCEECS 2024, ICDT 2024, ESIC 2024, ICDSNS 2024, ICCCE 2024, and FICTA 2024 (London, UK).

The research areas covered Artificial Intelligence, Intelligent Computing, Cyber-Physical Systems, Green Computing, and Emerging Technologies. These contributions provided students with global exposure, peer-review experience, and academic recognition.

Overall, the publication record during this period highlights the department's commitment to research excellence, academic visibility, and student mentorship. Such achievements significantly strengthen the institution's research profile and motivate future scholarly work.

The department proudly acknowledges the dedication of students and faculty mentors who guided these research efforts. Such accomplishments strengthen the institution's research profile and inspire future scholars to pursue impactful research.

The Department of Information Technology, Vardhaman College of Engineering (Autonomous), organized a Live Webinar on "Career Opportunities after B.Tech" on 7th October 2024 from 6:30 PM to 8:00 PM for fourth-year students. The program aimed to provide students with clear guidance on career pathways, higher education opportunities, and competitive exam preparation after completing their B.Tech.

The session was delivered by Mr. M. Ramesh, Senior Faculty Member at ACE Engineering Academy, who has over 12 years of experience in GATE coaching and technical mentoring. With his rich academic and mentoring background, he shared valuable insights into various career options available for engineering graduates.

During the webinar, the speaker discussed multiple career avenues such as higher studies (M.Tech/MS), government sector opportunities through GATE and PSU recruitment, private sector roles, and skill-based career development. He emphasized the importance of planning, consistency, and choosing the right preparation strategy for competitive exams and career growth.

The session was highly informative and interactive, enabling students to clarify their doubts regarding GATE preparation, career planning, and industry expectations. Students gained a broader understanding of how to align their interests and strengths with suitable career paths.

The program was coordinated by Mr. Venkatesh Kavididevi, Assistant Professor, Department of IT, whose efforts ensured the smooth conduct of the webinar. The event was organized in association with ACE Online and ACE Engineering Academy, strengthening the collaboration between academia and professional training institutions.

Leading Through Crisis: Principal's Desk

We want the education by which character is formed, strength of mind is increased, the intellect is expanded, and by which one can stand on one's own feet.

– Swami Vivekananda

As a nation, harnessing the demographic bonus of having the largest youth population, we stand on the verge of reestablishing our heritage as a trailblazer in civilization and as a global frontrunner. This can only come to fruition by appropriately educating students and empowering them not merely to seek employment but also to become job creators and pioneers. To ensure this objective, our Institution has established a world-class infrastructure, creating an atmosphere conducive to fostering cutting-edge technical education. We are fulfilling our mission of 'Unleashing the potential' by implementing teaching-learning and evaluation systems aimed at cultivating advanced critical thinking skills, providing extensive training in engineering expertise, and engaging students voluntarily in innovative practices within our labs and incubation centers leading to active involvement in national and international competitions. Additionally, we have numerous technical, non-technical, and social clubs to address the physical and mental well- being of our students, as well as to cater to their recreational needs, all while involving them in socially beneficial activities. Through this diverse array of activities, we have been able to nurture the most exceptional engineers, bridge the gap between academia and industry, and organically attract placement opportunities for our students. We take immense pride in our substantial contribution to the progress of our nation.

I extend a warm welcome to you at Vardhaman College of Engineering and to the array of experiences it has to offer.Join usand breathe life into the vibrant VCE journey.

Leading Through Crisis: HOD's Desk

Dr. Sreenivasulu Gogula is a distinguished academician and researcher currently serving as Professor (HAG) in the Department of Information Technology at Vardhaman College of Engineering (Autonomous), Hyderabad.

With a career spanning over two decades, he has made significant contributions to teaching, research, and technical leadership in the fields of Artificial Intelligence and Machine Learning. He has previously worked as Associate Professor at ACE Engineering College and as Assistant Professor in reputed engineering institutions, demonstrating sustained commitment to quality education and student success.

Dr. Gogula holds a Ph.D. from Jawaharlal Nehru Technological University, Hyderabad, and an M.Tech from Sathyabhama University. He is currently pursuing post-doctoral research at Singapore Institute of Technology, further strengthening his expertise and international research engagement. His academic journey reflects a continuous pursuit of knowledge and professional growth.

An active researcher, Dr. Gogula has published numerous scholarly works, including journal articles, book chapters, and conference proceedings. His research contributions have drawn citations from peers worldwide, and he collaborates with a wide network of co-authors in interdisciplinary research. In recognition of his academic excellence and research impact, he has received multiple honours and awards, such as the Best Researcher Award (2023), Best Teacher Award (2022), and professional accolades from industry organizations.

In addition to his research and teaching, Dr. Gogula actively participates in professional bodies. He is a Senior Member of IEEE, and a member of ACM, ISTE (Life Member), IEANG, and CSTA, among others. He has also served on the Technical Program Committee of international conferences and acted as the institutional SPOC for the Smart India Hackathon 2024, showcasing his leadership in academic events and industry collaborations.

Expert Talk

Exploring AI: Opportunities, Career Growth, and Essential Skills

The Department of Information Technology, Vardhaman College of Engineering (Autonomous), successfully organized an Expert Talk on "Exploring AI: Opportunities, Career Growth, and Essential Skills" on 10th August 2024 from 6:30 PM to 8:00 PM. The session was conducted with the objective of creating awareness among students about the rapidly evolving field of Artificial Intelligence and the career prospects associated with it.

The resource person for the session was Mr. Durgesh Singh, TCS IT Analyst and a certified professional in .NET and Microsoft Azure (AZ-204 & AZ-400). With his strong industry background, he provided valuable insights into real-world AI applications, industry expectations, and the skills required to build a successful career in AI-driven domains.

During the session, the speaker elaborated on emerging trends in AI, industry demands, and the importance of continuous upskilling in areas such as machine learning, cloud computing, and data analytics. He also guided students on career pathways, certification opportunities, and practical strategies to remain competitive in the technology landscape.

The talk was highly interactive, allowing students to engage in discussions and clarify their queries related to AI careers and future opportunities. Participants found the session informative and motivating, as it connected academic learning with industry realities.

From Expertise to Impact: Strategies for Faculty to Scale Success

Stories and insights from accomplished faculty who have expanded their impact in teaching, research, and innovation, emerging as academic leaders in their fields.

In today's rapidly evolving academic and technological landscape, faculty members play a vital role not only as educators but also as researchers, mentors, and contributors to societal progress. The theme "From Expertise to Impact" emphasizes transforming individual knowledge and skills into meaningful academic, professional, and social contributions. Scaling success in academia requires a strategic approach that integrates collaboration, research, industry engagement, continuous learning, and knowledge dissemination.

One of the key pillars of faculty success is peer mentorship and collaboration. By sharing knowledge, engaging in interdisciplinary work, and collaborating with fellow academicians, faculty can expand their intellectual horizons and strengthen research quality. Collaborative environments promote innovation and allow faculty to learn from diverse perspectives.

From Expertise to Impact: Strategies for Faculty to Scale Success

Another important aspect is student-centric research. Faculty who actively involve students in research projects foster critical thinking, creativity, and problem-solving skills among learners. Guiding students in research and innovation not only enhances student outcomes but also increases the academic impact and research output of faculty members.

Industry and community engagement is equally essential. Establishing partnerships with industry experts, research organizations, and community stakeholders helps faculty align academic work with real-world needs. Such engagement ensures practical relevance, opens opportunities for funded projects, and supports experiential learning for students.

To remain effective, faculty must prioritize continuous career development. Participating in FDPs, workshops, certifications, and conferences allows educators to update their technical knowledge and pedagogical practices. Lifelong learning ensures that faculty remain relevant in emerging domains and evolving educational methodologies.

Finally, publishing and public outreach amplify academic impact. Publishing in reputed journals and conferences enhances research visibility, while outreach activities help translate knowledge into societal benefits. Faculty who actively disseminate their work contribute to the broader academic community and institutional reputation.

Faculty excellence turns knowledge into innovation and impact.

Dr Muni Sekhar Velpuru serves as the Dean of Information Technology at Vardhaman College of Engineering (Autonomous), Shamshabad, Hyderabad. With a distinguished academic career spanning over a decade, he has held key leadership roles including Head of Department and Associate Professor in the IT discipline, demonstrating sustained commitment to academic excellence and strategic institutional development.

Dr Velpuru holds a Ph.D. from Jawaharlal Nehru Technological University and advanced degrees in M.Tech (NIT Karnataka) and B.Tech (JNTU), underpinning his deep technical foundation in Computer Science and Artificial Intelligence.

His research contributions include nine publications across journals and conference proceedings, and his scholarly work has attracted citations, contributing to a credible research profile.
Beyond research, Dr Velpuru has significant administrative and professional service experience. He is a life member of the Computer Society of India (CSI) and IAENG, and a member of IEEE, reflecting his active engagement with global academic communities.

Dr E.Ravi Kumar is an accomplished Assistant Professor in the Department of Information Technology at Vardhaman College of Engineering (Autonomous), Shamshabad, bringing extensive academic experience and a strong research orientation to his role. With a Ph.D. from Jawaharlal Nehru Technological University, Kakinada, and over a decade of teaching across multiple engineering institutions, he has demonstrated commitment to academic excellence and student development. His core expertise lies in Cloud Computing, Cyber Security, and the Internet of Things (IoT), fields that are highly relevant intoday's technologylandscape.

Practical approaches that support faculty in strengthening their teaching, research, and professional growth for long-term academic success.

One Week Professional Development
Trends in Threat Analysis of Cyber Attacks in Machine Learning

research scholars from colleges/ universities, and industrialist personnel in the concerned/allied discipline.

Registration
Academicians/Scholars -
INR 150/-

Registration Link:
https://forms.gle/Ucpxt77dMFvM3tcV7

Mode of PDP:
Online (MS teams- 6:30-8:00PM)
E-certificates will be provided to all participants

(Scan QR code for payment)

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One Week Professional Development Program

On

Trends in Threat Analysis of Cyber Attacks in Machine Learning

VARDHAMAN COLLEGE OF ENGINEERING

23rd to 28th October 2024
(Timings: 6.30PM - 8.00PM)

Organized By
Department of
Information Technology &
Computer Science and Engineering

About College

Vardhaman College of Engineering (VCE), established by the Vardhaman Educational Society in 1999, is renowned for offering toptier engineering and management education in the Telangana region.

The college offers a comprehensive range of academic programs, including an array of undergraduate B.Tech programs in disciplines such as Computer Science and Engineering (CSE), CSE with specializations in Artificial Intelligence & Machine Learning (AI&ML) and Data Science (DS), AI&ML, AI&DS, Information Technology (IT), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Mechanical Engineering (ME), and Civil Engineering (CE). In addition, VCE provides postgraduate M.Tech programs with specializations in Digital Electronics & Communication Systems (DECS), Power Electronics & Electrical Drives (PEED), Computer Science & Engineering (CSE), Structural Engineering (SE), and Engineering Design (ED), alongside an MBA program, and doctoral programs in CSE, ECE, and ME.

Accreditations and Recognitions:

- Approved by the All-India Council for Technical Education (AICTE) Delhi
- An UGC Autonomous College, permanently affiliated to JNTUH
- 6 UG Programmes accredited by NBA, New Delhi, under Tier-I
- Recognized by UGC under Section 2(f) & 12(B) Identified as College with Potential for Excellence (CPE) by UGC

About the Dept. of IT

The Department of Information Technology, established in 1999, offers a B.Tech program preparing students for careers in innovation and problem-solving with computational techniques. The department focuses on Theoretical Computer Science, High-Performance Computing, AI, Deep Learning, IoT, Data Science, Networking, Image Processing, Computer Vision, and Cyber Security. Intake started with 60 students, increased to 120 in 2012, and 180 in 2020. The department, led by Dr. G. Suryanarayana, an Associate Professor with nearly 15 years of experience, is accredited by NBA under Tier-1

About Dept. CSE

The Department of Computer Science and Engineering was established in 1999, with an intake of 60 and enhanced to 120 in 2006, 180 in 2012, 240 in 2013, 480 in 2023 and 540 in 2024 and ever since is the most sought-after department of the institution. The Department of Computer Science and Engineering offers B.Tech in Computer Science and Engineering and M.Tech in Computer Science and Engineering. The B.Tech program is accredited by the National Board of Accreditation (NBA) under the Tier-I category.

The Department has always kept pace with the rapid advancements significant in the field. The Department is known for its strength in Theoretical Computer Science, High-Performance Computing, Artificial Intelligence, Deep Learning, the Internet of Things, Data Science, Networking, Image Processing, Computer Vision and Cyber Security.

About the PDP

In the recent growth of the computing field, the pentas of Machine learning have captured the collective information through data sets like never before. From the potential of intelligent machines to profound impact of machine learning algorithms even though learning supports different technologies such as NLP, Networking, and so on.

Cyber-attacks are also affecting the machine learning models. This PDP brings out different attacking and recent trends in machine learning technologies which helps the faculty community and researchers to extend their inputs towards growth

Key Learnings

Attackers can reconstruct sensitive training data from model outputs or queries, potentially exposing confidential information through model inversion attacks.

- **Day 1** – Recent Trends in Machine Learning
- **Day 2** – Cyber Attacks On Machine Learning
- **Day 3** – Understanding Of Poisoning Attacks In Machine Learning
- **Day 4** – Exploring Open Source Tools For Image Steganography
- **Day 5** – Machine Learning For Cyber Security With Usecases

Objectives

- To endorse the knowledge of cyber-attacks affects Machine Learning models.
- To bring out the knowledge about recent trends in Machine Learning

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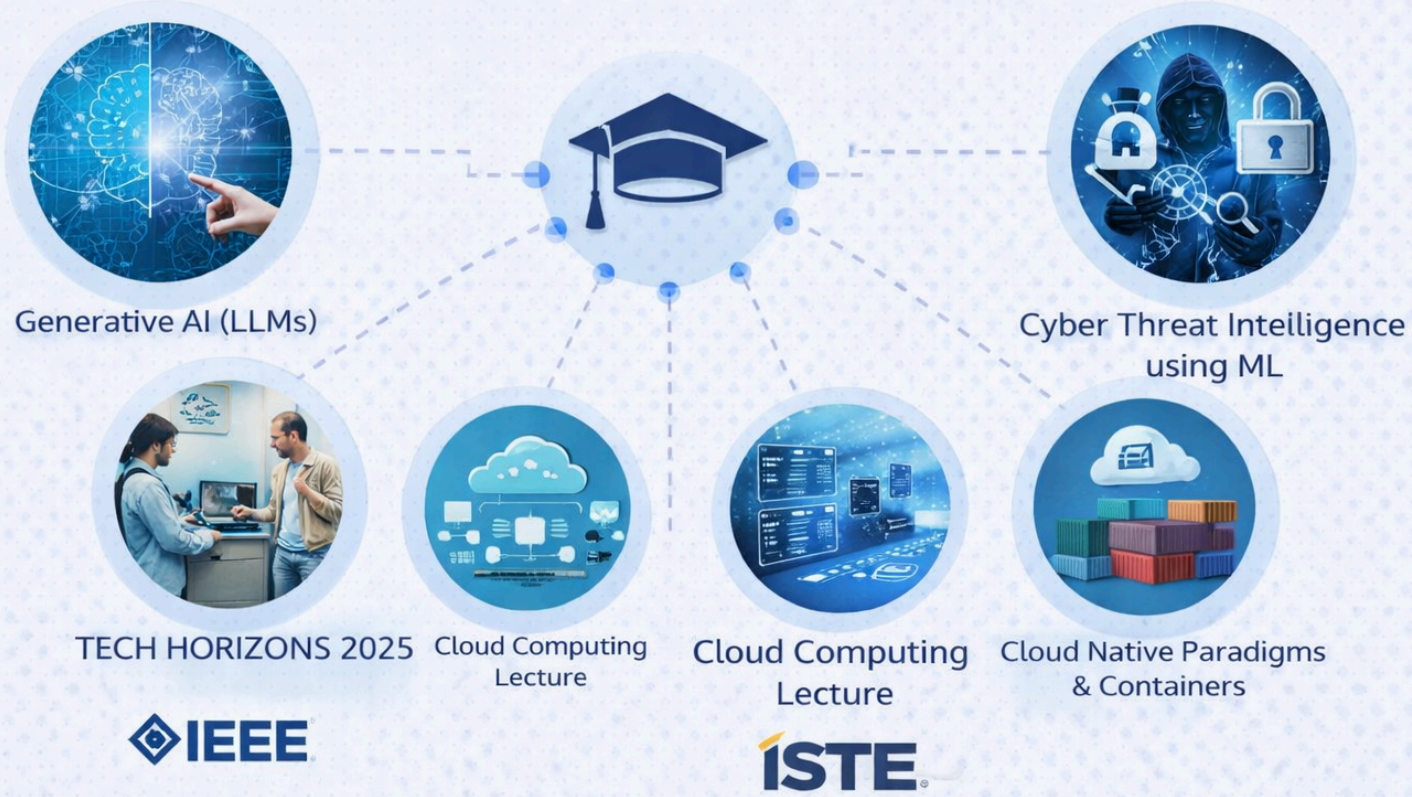
STUDENTS' PARTICIPATION IN PROFESSIONAL EVENTS (2024–25)



Students participated in professional events to enhance their skills and knowledge in emerging technologies like Generative AI, Cyberisecurity, Cloud Computinsl.

Get ready for an exciting edition filled with faculty achievements, student innovations, research highlights, and industry collaborations. Discover inspiring success stories, emerging technology trends, and milestones that showcase our department's excellence. Stay tuned for more knowledge, innovation, and achievements!

IT NEWS LETTER

JULY-DEC 2024

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