

Volume 19



Issue 02

VARDHAMAN
COLLEGE OF ENGINEERING

Bits & Bytes

JANUARY 2025 - JUNE 2025



**DEPARTMENT OF
INFORMATION TECHNOLOGY**



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):

- PE01: Graduates will be able to excel as IT Professionals with Proficiency in understanding, applying, analysing and designing solutions to Information Technology relevant problems.
- PE02: Graduates will be able to pursue higher studies with good knowledge in core areas of Information Technology and promote collaborative research.
- PE03: Graduates will be able to exhibit professionalism, teamwork, leadership skills and exposure to current needs.
- PE04: Graduates will be able to excel as entrepreneurs with the potential knowledge to design software-based solutions for societal needs.

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Bits & Bytes News Letter

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Editor Notes

The year 2025 has been a remarkable period of academic and professional enrichment, highlighted by a series of impactful national-level programs and events that reflect the rapidly evolving landscape of computing and information technologies. From cloud-native architectures to generative AI and cybersecurity, the breadth of themes covered in these events demonstrates a strong commitment to staying aligned with global technological transformations and industry needs.

The Professional Development Program (PDP) on Cloud Native Paradigms and Emerging Trends in Container Orchestration (15–19 April 2025) emphasized the growing importance of scalable, resilient, and portable application development. As organizations increasingly migrate to cloud environments, understanding containerization, microservices, and orchestration tools has become essential. This program enabled participants to explore modern deployment models and best practices, equipping educators and learners to integrate real-world cloud-native concepts into teaching and research.

Equally significant was the PDP on Hands-On Generative AI: Unlocking Creativity with LLMs (17–22 March 2025). Generative AI is reshaping how we create, analyze, and interact with information. This program provided practical exposure to large language models (LLMs), prompt engineering, and AI-driven creativity. Beyond technical skills, it inspired participants to rethink pedagogy, research, and innovation through the lens of AI-assisted problem-solving. Such exposure is vital as generative AI becomes a cross-disciplinary tool impacting engineering, management, healthcare, and social sciences.

Cybersecurity remains a cornerstone of the digital era, and the PDP on Cyber Threat Intelligence using Machine Learning (24–29 March 2025) addressed this critical domain. By blending machine learning with threat intelligence, the program highlighted proactive approaches to identifying, analyzing, and mitigating cyber risks. Participants gained insights into data-driven security strategies, reflecting the urgent need for skilled professionals who can safeguard digital infrastructure in an increasingly connected world.

*Kavidevi
Venkatesh*

**Assistant Professor, Department of
Information Technology Vardhaman
College of Engineering**



Events and Programs Organized for Students

IEEE / ISTE / TAIT / ACM Student Chapters

Cybersecurity remains a cornerstone of the digital era, and the PDP on Cyber Threat Intelligence using Machine Learning (24–29 March 2025) addressed this critical domain. By blending machine learning with threat intelligence, the program highlighted proactive approaches to identifying, analyzing, and mitigating cyber risks. Participants gained insights into data-driven security strategies, reflecting the urgent need for skilled professionals who can safeguard digital infrastructure in an increasingly connected world.

The Project Expo TECH HORIZONS 2025 (12 April 2025) served as a vibrant platform for showcasing innovation and student talent. Such expos nurture creativity, teamwork, and applied learning, allowing young engineers to translate theoretical knowledge into tangible solutions. They also foster collaboration between academia and industry by highlighting practical, problem-solving projects.

Complementing these technical programs was the guest lecture on Cloud Computing: Pioneering Scalable Solutions for Tomorrow's Tech Challenges (12 April 2025). This session reinforced foundational and advanced concepts in cloud computing while connecting them to future industry demands. Guest lectures by experts play a vital role in broadening perspectives and motivating learners to pursue continuous upskilling.

Collectively, these events reflect a proactive academic ecosystem that values lifelong learning, industry relevance, and innovation. They underscore a shared vision: preparing faculty and students not just to adapt to technological change, but to lead it. As emerging technologies continue to redefine boundaries, such initiatives ensure that our academic community remains future-ready, resilient, and inspired to contribute meaningfully to the digital world.

Academic & Technical Programs

In addition, skill development programs and certification guidance sessions were organized to motivate students to complete value-added courses like NPTEL, IEEE programs, and industry internships. Career guidance talks and interaction sessions with experts helped students understand current industry trends and employment opportunities.

The department also facilitated research-oriented activities, encouraging students to participate in paper presentations, conferences, and project expos. Students were guided by faculty mentors to develop research aptitude, improve presentation skills, and publish their work in reputed forums

Professional Growth & Career Preparedness Report

Programs such as Campus to Corporate, web security hackathons, and bootcamps focused on bridging the gap between academia and industry, improving employability skills and real-world problem-solving abilities.

Key programs covered emerging areas

During 2025, I actively engaged in multiple national-level Professional Development Programs (PDPs), workshops, and technical events organized by IEEE and ISTE. These initiatives significantly contributed to my academic enrichment, technical expertise, and career readiness. The focus areas included Cloud Computing, Container Orchestration, Generative AI, Cybersecurity, and emerging technologies, aligning with current industry demands.

S. No	Name of FDP/PDP/Event	Organization	Level	Duration / Date	Focus Area	Key Outcomes	Relevance to POs / NBA Criteria
1	PDP on Cloud Native Paradigms and Emerging Trends in Container Orchestration	IEEE	National	15-04-2025 to 19-04-2025	Cloud Computing, Containerization	Knowledge in cloud-native architectures, microservices, and orchestration tools	PO1, PO12 (Life-long Learning)
2	PDP on Hands-On Generative AI (Unlocking Creativity with LLMs)	IEEE	National	17-03-2025 to 22-03-2025	Generative AI, LLMs	Skills in prompt engineering, ethical AI usage, AI tools integration	PO2, PO5, PO12
3	PDP on Cyber Threat Intelligence using Machine Learning	IEEE	National	24-03-2025 to 29-03-2025	Cyber security, ML	Cyber threat analytics, ML-based detection techniques	PO3, PO5, PO12
4	Project Expo – TECH HORIZONS 2025	IEEE IT	National	12/...	Innovation & Projects	Exposure to innovative projects, networking, mentoring insights	Experiential Learning, Innovation Metrics
5	Guest Lecture on Cloud Computing: Pioneering Scalable Solutions for Tomorrow's Tech Challenges	ISTE	National	12/...	Cloud Computing	Industry-oriented insights, scalable solutions knowledge	Curriculum Enrichment, Industry Interaction

Hands on Generative AI: Unlocking Creativity with LLMs

Date: 17th to 22nd
March, 2025

Agenda: Scientific Writing and Publishing: An Introduction

The first day of the session commenced with a warm welcome to all participants, followed by an insightful introduction to the growing significance of Artificial Intelligence in the academic and research landscape. Dr. K. S. Sowmiya Rani elaborated on how AI has transformed the way researchers approach scientific writing, bringing efficiency, clarity, and enhanced productivity. The session covered the basics of integrating AI into the writing process, with an emphasis on popular tools such as ChatGPT, Grammarly, and Writefull. Participants were introduced to the ethical dimensions of using AI tools, including the importance of maintaining originality, avoiding plagiarism, and responsibly utilizing AI assistance. The session concluded with an interactive demo and a Q&A segment, where participants gained a foundational understanding of how AI can augment scientific writing without compromising academic integrity.

Agenda: Introduction to AI tools for Scientific Writing and Publishing

On the second day, the session focused on how AI can support the structural composition of a research paper. Dr. Sowmiya Rani provided a detailed walkthrough on drafting various components of a research manuscript using AI—from writing the abstract and introduction to crafting a strong conclusion. The session emphasized the importance of clarity, coherence, and logical flow in scientific writing and how AI tools can help refine language, tone, and structure. Participants were introduced to AI-supported reference managers and literature mapping platforms such as Zotero, Connected Papers, and Semantic Scholar. The speaker also demonstrated how to use AI for paraphrasing, grammar correction, and checking for redundancies while maintaining academic tone. The segment concluded with a brief discussion on plagiarism detection and originality analysis using tools like Turnitin and Grammarly Premium.

One WEEK National Level Professional Development Program

on

Hands on Generative AI: Unlocking Creativity with LLMs

(17th to 22nd March, 2025)



STUDENT'S PARTICIPATIONS IN PROFESSIONAL EVENTS

Students' participation in professional events significantly enriched their academic learning and technical expertise. These activities helped bridge the gap between theoretical knowledge and industry practices, thereby preparing students for future technological challenges. Encouraging such participation fosters continuous learning, innovation, and professional growth among students.

Students actively participated in various professional events organized by reputed bodies such as IEEE, IEEE IT, and ISTE during the academic year 2024–25. These programmes were conducted at the national level and focused on emerging technologies, research exposure, and skill development aligned with current industry requirements.

The events provided a platform for students to interact with experts, gain hands-on exposure, and enhance their technical and professional competencies.

The focus is on providing practical approaches to tackle implementation challenges, adopt technology-driven transparency, and establish effective strategic partnerships.



Outcomes

Participation in these events resulted in:

- Improved knowledge of Generative AI, Machine Learning, Cybersecurity, and Cloud Computing
- Enhanced practical and research-oriented skills
- Exposure to current industry tools and technologies
- Development of innovation and project presentation skills
- Increased awareness of career opportunities in emerging tech domains

S. No	Name of the Professional Societies	Name of the event	National/ International level	Date of Event
1	IEEE	PDP on Hands On Generative AI (Unlocking Creativity with LLMs)	National	17-03-2025 to 22-03-2025
2	IEEE	PDP on Cyber Threat Intelligence using Machine Learning	National	24-03-2025 to 29-03-2025
3	IEEE IT	Project Expo TECH HORIZONS 2025	National	12-04-2025
4	ISTE	A Guest Lecture on Cloud Computing: Pioneering Scalable Solutions for Tomorrow's Tech Challenges	National	12-04-2025
5	IEEE	PDP on "Cloud Native Paradigms and Emerging Trends in Container	National	15-04-2025 to 19-04-2025

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.



One Week National Level Faculty Development Program on Cloud-Native Paradigms and Emerging Trends in Container Orchestration

The FDP is open to faculty members, research scholars from colleges/universities, and industry personnel working in the concerned or allied disciplines.

REGISTRATION PAYMENT



Student - 99/-,
Faculty - 199/-

REGISTRATION LINK:



Scan for Registration

RESOURCE PERSONS

1. Dr. Bhanu Chander, Assistant Professor, SE-Cyber Security Department, IIIT Kottayam
2. Ashu Dev, AWS Academy Accredited Educator, AWS Academy - Gurugram
3. Dr. Rekha P M, Professor CSE & HOD, Information Science

Dr. Muni Sekhar Velpuru
Prof. Vivek Kulkarni
Dr. Ganesh Bhaiyya Regulwar
Dr. Mukta Jagdish
Dr. Saroja Kumar Rout
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VARDHAMAN
COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY



One Week National Level
Faculty Development Program
on
**CLOUD-NATIVE PARADIGMS AND
EMERGING TRENDS IN CONTAINER
ORCHESTRATION**

The Department of Information Technology, Vardhaman College of Engineering (Autonomous), successfully organized a One Week National Level Faculty Development Program (FDP) on “Cloud-Native Paradigms and Emerging Trends in Container Orchestration” from 15th April 2025 to 19th April 2025 (Online).

The FDP aimed to promote the adoption of cloud-native paradigms for building scalable, resilient, and agile applications. It also focused on disseminating knowledge about emerging container orchestration technologies such as Kubernetes, service meshes, and serverless architectures

The program attracted faculty members, research scholars, and industry professionals from various institutions. Expert resource persons from reputed organizations delivered insightful sessions on cloud security, container deployment, AWS tools, and GitHub-based development practices.

Participants gained hands-on exposure to modern cloud-native tools and technologies, enabling them to design and implement multi-tier architectures on AWS and manage containerized applications efficiently. The FDP successfully bridged the gap between academic knowledge and industry requirements, fostering innovation and professional upskilling.

The FDP created a strong academic and professional impact by enabling participants to understand the practical implementation of cloud-native solutions in real-time environments. The sessions emphasized scalability, resilience, and agility in application development, which are critical requirements in today’s IT industry. The structured learning approach helped participants connect theoretical concepts with real-world deployment scenarios

- **Conducted from 15–19 April 2025 (Online Mode)**
- **Focus on Cloud-Native & Container Technologies**
- **Covered Kubernetes, Docker, AWS & GitHub**
- **Hands-on exposure to real-world tools**
- **Participation from faculty, researchers & industry**
- **Expert sessions by certified professionals**
- **E-certificates awarded to all participants**
- **Promoted scalable and resilient application design**
- **Strengthened academia–industry linkage**

**E-certificates were
provided to all participants
upon successful completion
of the program**

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.

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 us and breathe life into the vibrant VCE journey.

Project Expo

VCE
VARDHAMAN
COLLEGE OF ENGINEERING

IEEE
COMPUTER
SOCIETY

IEEE
SMC
Systems, Man, and Cybernetics Society

IEEE
Education Society

IEEE
VCE SB

IEEE Vardhaman College of Engineering Student Branch
in association with

Department of
Information Technology
Presents

PROJECTEXPO

Contest Date: 29th March 2025
Venue: Block - 3, Department of IT

For any queries reach out to:-
Dr. Saroja Kumar Rout
Project Coordinator Department of INF

[ieeewardhaman.sb](https://www.instagram.com/ieeewardhaman.sb)

Project Expo 2025 – Showcasing Innovation and Technical Excellence

The Department of Information Technology, in association with the IEEE Vardhaman College of Engineering Student Branch, proudly presents Project Expo 2025, a platform dedicated to celebrating student innovation, creativity, and technical expertise. Scheduled for 29th March 2025 at Block-3, Department of IT, this expo brings together bright minds to demonstrate real-world solutions to contemporary technological challenges.

Project Expo serves as a dynamic forum where students translate theoretical knowledge into practical applications across domains such as Artificial Intelligence, Machine Learning, IoT, Cybersecurity, Cloud Computing, and Software Development. It encourages participants to think beyond textbooks and develop problem-solving approaches that address societal and industrial needs.

This event is designed not only to showcase projects but also to nurture collaboration, research culture, and interdisciplinary learning. Students gain the opportunity to present their ideas, receive expert feedback, and improve their communication and technical presentation skills.

By fostering innovation and experiential learning, Project Expo 2025 strengthens the bridge between academia and industry expectations. It inspires students to become future-ready engineers capable of designing impactful technological solutions.

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 in today's technology landscape.



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

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.



From Expertise to Impact: Strategies for Faculty to Scale Success



The faculty of the Information Technology department at Vardhaman College of Engineering demonstrate a strong blend of academic qualifications, teaching experience, and research orientation, creating a solid foundation for educational excellence. Their profiles reflect expertise across core and emerging areas of IT, enabling them to deliver quality instruction, guide student projects, and contribute to curriculum development. This collective strength positions the department to not only maintain academic standards but also to continuously adapt to evolving technological trends.



To scale success from individual expertise to broader impact, faculty development must be intentional and continuous. Strategies such as regular professional development programs, collaborative learning communities, research engagement, and industry interaction help faculty stay current and effective. When educators integrate research insights and real-world applications into teaching, student learning becomes more relevant and outcome-driven. Mentorship among senior and junior faculty further strengthens academic culture and knowledge transfer within the department.



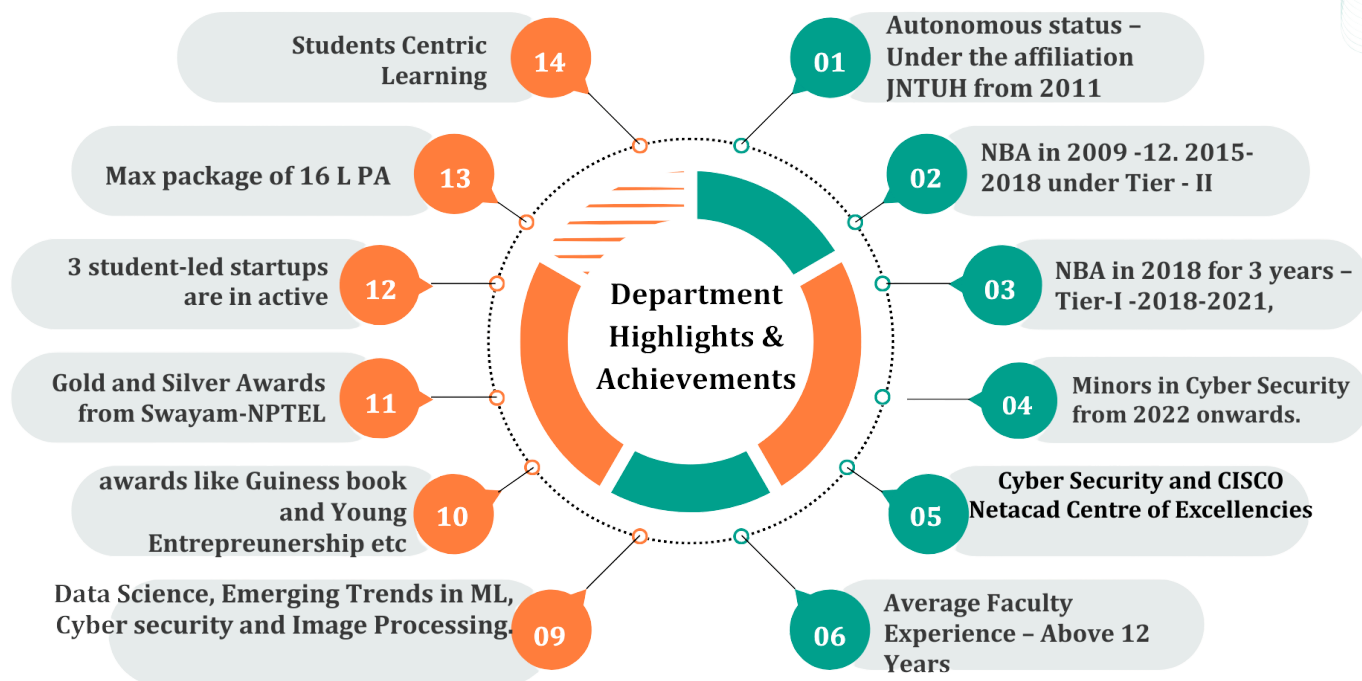
Overall, transforming expertise into impact requires alignment between faculty strengths and institutional goals. By supporting innovation in teaching, encouraging publications and funded projects, and tracking outcomes like student success and research output, the department can amplify its influence. A culture of collaboration, lifelong learning, and strategic planning ensures that faculty contributions extend beyond classrooms to institutional growth and societal benefit.



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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!

The background of the cover is a photograph of a modern building with a large glass facade. The glass reflects the surrounding greenery and sky. In the foreground, there are several trees with green and yellow leaves, and a street lamp. The overall scene is bright and clear.

IT NEWS LETTER

JANUARY-JUNE 2025

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