# VOICE of VIGNAN

SCIENCE | TECHNOLOGY | RESEARCH



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# The Peace We Seek




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## From the Editorial Desk

*"When a university grows, it is not the buildings that rise - it is the people."*

*The November 2025 edition stands as a vivid reflection of our campus spirit. Every event captured in these pages reveals not just activities, but the strengthening heartbeat of a university committed to responsibility and innovation.*

*This month, Vignan celebrates a milestone of national significance as five engineering programs earn the prestigious NBA accreditation, reaffirming our promise to deliver education rooted in quality, outcome-based learning, and industry relevance. This achievement assures every student and parent that Vignan's academic standards continue to rise to national and global expectations.*

*As we move closer to Mahotsav 2026: Eternal Harmony, the excitement across campus is already palpable. This edition also highlights our growing focus on ethical leadership, Indian Knowledge Systems, and sustainable development—showcased through national seminars that blend traditional wisdom with global management perspectives. Such dialogues prepare our students to lead with conscience, clarity, and cultural grounding.*

*Beyond academics, Vignan continues to uphold its responsibility to society. Through UEAC outreach initiatives—from drug awareness campaigns and women entrepreneurship sessions to groundwater conservation drives and health education—our students are transforming empathy into action, discovering the true meaning of service. These efforts remind us that education reaches its purpose.*

*Stories such as "Echoes of Sudan," voiced by an international student, further remind us that Vignan is not just a campus but a global community—one where diverse cultures come together to learn, celebrate, and support one another in moments of joy and crisis.*

*As we close the chapter of November 2025, the journey ahead shines with promise. Together, we continue to write new stories of excellence, harmony, and hope.*

*Dr. M. Malakondaiah*
*Advisor, VFSTR*















# FDP

## by ACSE in Collaboration with E&ICT Academy, IIT Guwahati

The Department of Advanced Computer Science & Engineering (ACSE), Vignan's Foundation for Science, Technology & Research (Deemed to be University), successfully conducted a one-week Faculty Development Program (FDP) on Recent Trends in Artificial Intelligence and Deep Learning from 10th to 14th November 2025, in collaboration with the *E&ICT Academy, IIT Guwahati. The program brought together nearly 90 faculty members and research scholars from across India, reflecting the academic community's growing interest in cutting-edge AI innovations.

The inaugural session was graced by

- Prof. Venkatesulu Dondeti, Dean (R&D) & Dean, ACSE
- Prof. K. V. Krishna Kishore, Dean, SoCI & Dean, Admissions
- Prof. Gaurav Trivedi, IIT Guwahati

Their presence marked a strong institutional commitment toward strengthening national capacity in AI research and education. The program concluded with a valedictory address by Prof. Venkatesulu Dondeti alongside Ms. Feroza Haque, Program Manager, E&ICT Academy, IIT Guwahati.

### A Week of Insightful and Transformative Learning

The FDP featured eminent speakers from IITs, NITs, IIITs, DIAT, and industry, offering a comprehensive blend of theoretical insights, emerging research directions, and real-world applications. Each session contributed to building a clear understanding of the rapid, multi-disciplinary evolution of AI.

*Key Academic Takeaways*

Prof. Gaurav Trivedi (IIT Guwahati) has emphasized that India is entering a phase where large-scale, trustworthy AI systems will become central to national growth, calling for stronger academia-industry collaboration.

Prof. C. Chandra Sekhar (IIT Madras) explained how transformer-based language models revolutionized NLP through contextual embeddings and deeper semantic reasoning.

Prof. Dileep A. D (IIT Dharwad) discussed how attention mechanisms and transformer architectures overcame the limitations of traditional deep learning, enabling global context understanding across multiple data modalities.

Dr. Shitala Prasad (IIT Goa) showcased AI's impact on healthcare, drones, and embedded systems, stressing the importance of domain-oriented model design.

Dr. Veena (NIT Goa) highlighted how Vision Transformers outperform CNNs by capturing global features from the start, and how multimodal models unite text, vision, and signal data.

Prof. Sonali Agarwal (IIIT Allahabad) spoke about the growing importance of Responsible AI—fairness, transparency, and accountability in societal deployment.

The one-week FDP on "Recent Trends in Artificial Intelligence and Deep Learning," conducted by ACSE in collaboration with E&ICT Academy, IIT Guwahati, brought together nearly 90 participants from across India. With sessions led by distinguished speakers from IITs, NITs, IIITs, DIAT, industry, and VFSTR, the program offered deep insights into transformers, multimodal AI, diffusion models, responsible AI, video analytics, and scalable deployment practices. The FDP successfully blended research, real-world industry applications, and hands-on learning, strengthening the academic ecosystem and inspiring participants toward advanced AI research and innovation.

Dr. Javed (IIIT Allahabad) elaborated on efficient transformer fine-tuning and the necessity of robust evaluation frameworks for trustworthy AI systems.

Dr. Sunil Kumar (IIITM Gwalior) presented advancements in GANs and diffusion models, especially their role in medical imaging and synthetic data generation.

Dr. Bharath Ramkrishna (DIAT, Pune) discussed modern video analytics powering defense and surveillance, where deep learning models operate in mission-critical autonomous systems.

Dr. Sanjay Kumar Sonbhadra (GITAM University) spoke on next-generation object detection systems like YOLOv8 and DETR, which bring higher accuracy and robust perception capabilities.

Dr. HemaLatha (Anna University) illustrated how Python's scientific stack—NumPy, TensorFlow, PyTorch—accelerates AI experimentation and research workflows.

Dr. Jyostna Devi Bodapati (ACSE, VFSTR) explained the effectiveness of transfer learning, where pretrained CNNs deliver high accuracy even with limited datasets—crucial for practical AI deployment.

## Industry Leaders Illuminate Real-World AI

To bridge academia with tech industry expectations, the FDP featured sessions from leading professionals working on applied AI, cloud systems, and foundation models.

Dr. Vinay Kumar Venkataramana (IVIS Labs, Mysore) explored how Foundation Models and LLMs are reshaping enterprise automation and enabling rapid domain adaptation.

Ravitez Dondeti (Crestron Electronics, Texas, USA) demonstrated how RAG and LangChain form the core of next-gen enterprise AI applications and accelerate development pipelines.

Dr. Vinay Kumar Nataraj (NTT Data, Bangalore) discussed the realities of industrial ML where systems degrade over time, highlighting tools like EvidentlyAI and MLflow for monitoring data drift and model health.


Dr. Ajay Shenoy (IISc / Consultant) explained how PEFT and LoRA make LLM fine-tuning more cost-effective and accessible to organizations.

Dr. Sumukh Bansal (Jio, Bengaluru) showcased the creative and engineering potential of diffusion models for photorealistic image generation.

Pradip Patel (DevOpsDeep Pvt. Ltd.) connected AI to deployment infrastructure, showing how CI/CD pipelines, Docker, and Kubernetes convert research models into scalable production systems.

Mr. Shaik Nagur Shareef (Agentic AI, UST, USA) discussed the emerging need for Explainable AI and attribution methods that reveal why models behave as they do—essential for trust and regulation.

## A Program that Energized Research and Collaboration

Participants appreciated the FDP for its technical depth, hands-on relevance, and outstanding lineup of speakers from top institutions and industries as it can be described as a program that energized research and inter-university and also industrial collaboration for knowledge exchange. The sessions can be said to have a meaningful impact on discussion of research, collaborative thinking, and new research directions.

by
Dr. Jyostna Devi Bodapati
Assoc., Prof, ACSE

# Vignan's University Celebrates Prestigious NBA Accreditation for Five Engineering Programs

Vignan's University is buzzing with pride as we announce a remarkable milestone that reinforces our long-standing commitment to academic excellence. Five of our Undergraduate Engineering programs have been awarded the prestigious National Board of Accreditation (NBA) recognition—a testament to the collective dedication of our faculty, students, and academic leadership. This achievement, perfectly reflected in the sentiment "Five Streams, One Standard of Excellence," highlights the strength, quality, and relevance of our engineering education.

The programs that have earned this esteemed accreditation include Biomedical Engineering, Bioinformatics, Civil Engineering, Chemical Engineering, and Information Technology. These accreditations are valid for a period of three years, from January 1, 2026, to December 31, 2028, marking a period during which our programs are officially recognized as meeting the rigorous national standards set by the NBA.

For our students and their families, this accreditation is far more than a formal acknowledgment—it is a powerful assurance of quality that carries real-world benefits. NBA accreditation significantly enhances the employability of our graduates, signaling to industry leaders across India and abroad that Vignan students are equipped with the knowledge, skills, and ethical foundation essential to succeed in the engineering profession. This recognition assures employers that our graduates are prepared not just academically, but professionally, for the challenges of the modern technical world.

> Vignan's University has earned NBA accreditation for five engineering programs, confirming its strong academic standards and industry-aligned education. This recognition enhances student employability, validates our commitment to outcome-based teaching, and reflects our readiness to meet national benchmarks. It marks a proud moment that strengthens our vision of shaping innovative, future-ready engineers.

The accreditation further strengthens Vignan's University unwavering commitment to quality. It reflects our alignment with outcome-based education (OBE), ensuring that what our students learn in classrooms translates directly into industry-ready competencies. The NBA's evaluation is comprehensive and stringent, examining curriculum design, faculty expertise, student achievements, infrastructure, and continuous improvement practices. Achieving this accreditation affirms that Vignan's engineering programs meet the highest national benchmarks for technical education.

At Vignan's University, our mission extends beyond awarding degrees. We aim to foster an environment that nurtures creativity, critical thinking, and innovation. We aspire to shape engineers who are not only technically proficient but also visionary—individuals who will build solutions, lead teams, and contribute meaningfully to society. This NBA recognition is not just a moment of celebration but a stepping stone toward even greater heights. It energizes our commitment to offering world-class learning experiences and reassures every student that they are receiving an education rooted in excellence and designed for future leadership.

As we celebrate this milestone, we invite our students, faculty, alumni, and well-wishers to share in this proud achievement. The future of engineering at Vignan's University shines brighter than ever, and together, we look forward to reaching new horizons in academic and professional excellence.

by
K.SAI MUKESH
II AIML

# Writing a New Legacy

## VFSTR Welcomes Dr. Pavuluri Subba Rao Garu as Chancellor

The VFSTR fraternity proudly celebrates a historic milestone with the formal induction of Dr. Pavuluri Subba Rao Garu as the Chancellor of Vignan's Foundation for Science, Technology & Research (VFSTR). This momentous occasion reflects the university's unwavering commitment to excellence in education, research, and national service.

Dr. Subba Rao Garu is a distinguished scientist, technocrat, and visionary whose contributions to India's aerospace and defence sectors are both profound and enduring. Widely known as the "Grandfather of India's SpaceTech Startup Ecosystem," he has played a pivotal role in shaping the growth of private space innovation in the country. His pioneering achievement as the first Indian to establish a private Assembly, Integration, and Testing (AIT) facility for satellites and launch vehicles marked a

transformative leap in India's space programme. This milestone enabled wider private-sector participation and catalysed a vibrant ecosystem of technological entrepreneurship.

Throughout his illustrious career, Dr. Subba Rao Garu's leadership has been defined by foresight, discipline, and an unwavering dedication to scientific advancement. His remarkable work has strengthened India's space research capabilities and inspired generations of young innovators, researchers, and technologists.

As he assumes the esteemed chancellorship of VFSTR, the university embraces a renewed vision for the future—one that emphasizes innovation, global competitiveness, and impactful national contribution. Under his guidance, VFSTR aspires to evolve into a national centre of excellence, expanding its research footprint, enhancing industry collaborations, and nurturing talent capable of driving India's technological aspirations.

With Dr. Subba Rao Garu at the helm, VFSTR reaffirms its mission to advance knowledge, empower youth, and support India's growth in space, defence, and emerging technologies. His leadership will undoubtedly inspire the next generation of thinkers, innovators, and changemakers who will shape the future of scientific and technological progress in the nation.

by
V. Sri Teja
III CSE

# Transforming Access to Higher Education

## Online Learning, National Priorities, and Vignan's Path Forward


India's higher education sector stands at an important turning point. The National Education Policy (NEP) has set an ambitious target to raise the Gross Enrolment Ratio (GER) in higher education to 50 percent by 2035/2037. This expansion requires bringing nearly seven crore learners into the higher-education system—an increase of more than 2.6 crore students from today's enrolment of approximately 4.33 crore. Traditional higher-education institutions cannot accommodate this vast number of additional learners through physical infrastructure alone. Therefore, online and distance learning will be central to meeting India's GER goals in the coming decade.

According to AISHE (2021–22), India's current GER stands at around 28.4 percent. To reach a 50 percent GER, the system must grow to nearly 70 million learners. This massive expansion cannot be achieved through conventional classroom models, as building new campuses, hiring faculty, and expanding physical capacity at such a scale is unrealistic within the given timeframe. Online education, supported by flexible delivery modes and strong digital infrastructure, becomes the only scalable and sustainable option for achieving this national vision.

| Year | No. of Universities | ODL Enrolments | No. of Universities | OL Enrolments |
|---|---|---|---|---|
| 2022-23 | 99 | 22,66,130 | 70 | 1,33,255 |
| 2023-24 | 93 | 21,08,763 | 87 | 2,32,806 |
| 2024-25 | 109 | 18,62,770 | 100 | 2,91,974 |

At present, 130 universities across India are approved to offer Open and Distance Learning (ODL) and fully Online Degree programmes. * Source: UGC – DEB

However, recent enrolment trends are a matter of concern. ODL admissions have steadily declined over the last three years, dropping from 22,66,130 in 2022–23 to 21,08,763 in 2023–24 and further decreasing to 18,62,770 in 2024–25. Online admissions, although showing slight improvement over three years—from 1,33,255 in 2022–23 to 2,91,974 in 2024–25 still do not exhibit the momentum expected for such a large and rapidly digitizing country. These figures suggest that both ODL and Online programmes have not yet become the preferred choice for learners, despite government initiatives and improvements in digital access.

The slow growth is partly due to limited public awareness. Many learners and parents still do not fully accept online degrees as equivalent to regular degrees, even though the University Grants Commission (UGC) has formally clarified their equivalence.

Another important aspect that demands immediate attention is the quality of teaching pedagogy in online education. Online teaching is not simply transferring classroom lectures to a digital platform. It

requires specialised instructional design, multimedia-based content creation, interactive activities, continuous engagement, and strong assessment strategies. Faculty must be trained in modern digital pedagogies such as micro-learning, flipped classrooms, case-based learning, modular teaching, and analytics-driven mentoring. High-quality online programmes require far more planning and academic effort than traditional teaching. Universities must invest substantially in teacher training, digital course development, and sophisticated Learning Management Systems to enhance the quality of online education.

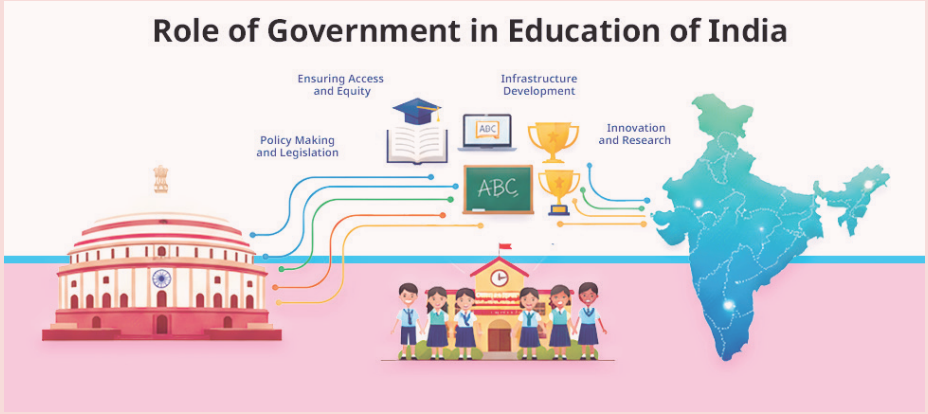
While the baseline digital infrastructure in these states is relatively strong, enrolment in ODL and Online programmes has not grown at the desired rate, indicating the need for stronger public messaging, improved digital pedagogy, and more robust learner support.

In this national and regional landscape, Vignan's Foundation for Science, Technology & Research (VFSTR) is positioned to play a transformative role in strengthening online education. Vignan has already taken proactive steps through NEP-aligned curriculum reform, flexible programme structures, and modern digital learning systems. The Centre for Distance and Online Education (CDOE) is investing significantly in faculty development programmes to train teachers in online pedagogy, instructional design, and course creation. This ensures that Vignan's online offerings are academically rigorous, learner-friendly, and aligned with national quality benchmarks.

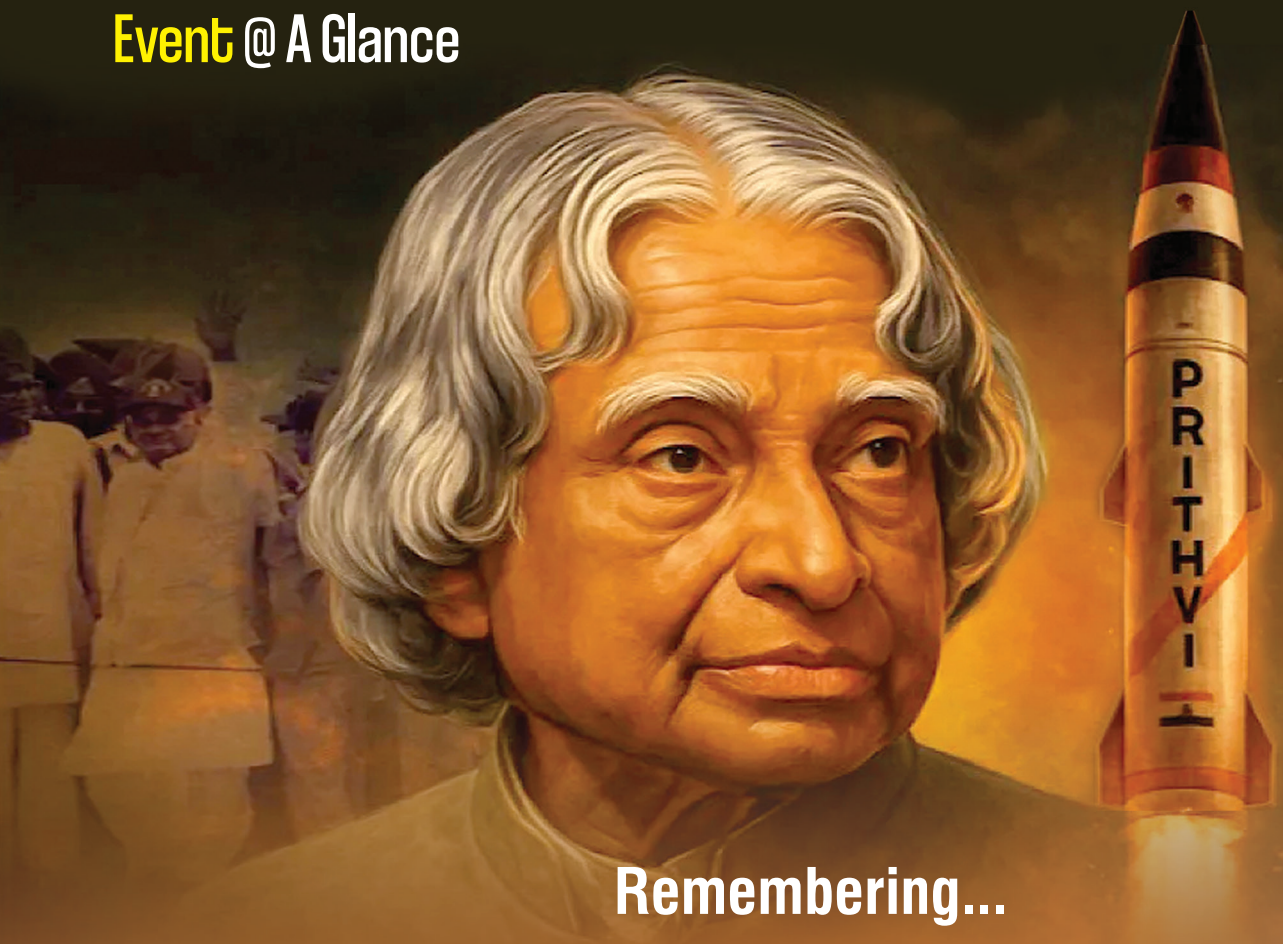
Vignan is also building a robust Learning Management System equipped with data analytics to monitor learner engagement, track academic progress, provide timely feedback, and support struggling learners through targeted interventions. The University is expanding its digital ecosystem by offering free add-on certifications, industry-oriented modules, and regular TechTalks to expose students to emerging technologies, industry trends, and practical applications. This combination of academic rigor, digital innovation, and industry integration places Vignan in a strong position to serve as a regional leader in online education.

Within this rapidly evolving landscape, in addition to offering four programmes (BBA, BCA, MBA, and MCA) with around 7,000 enrolments, Vignan's University must now focus on introducing additional online programmes and significantly increasing online enrolments. Growth in enrolment is not merely a numerical target; it is essential for establishing Vignan as a strong regional and national player in the digital education ecosystem. Larger enrolments will demonstrate public trust, institutional capability, and the academic strength of our programmes.

To achieve this, Vignan must expand its outreach and undertake a strong, continuous, and well-designed campaign that clearly communicates the value, credibility, and relevance of its online programmes. Raising awareness among working professionals, women learners, rural youth, and aspirants seeking career advancement is crucial for driving this expansion.


by
Prof. N. Veeranjaneyulu,
Director, CDOE,
VFSTR




## Remembering...

# The First Missile & the Man behind it

This article reflects on Dr. A.P.J. Abdul Kalam's inspiring journey from Rameswaram to becoming India's 11th President and a global scientific icon. His contributions to India's missile and space programs and his deep connection with people made him a beloved national figure. The tribute highlights his enduring legacy, motivating students and dreamers to work hard and pursue their aspirations with hope and determination.

Dr. Abdul Kalam will be in the hearts of the people in India and all over the world. Dr. Kalam was born on October 15, 1931, in Rameswaram, Tamil Nadu. The story of his rise through the ranks of India and science to take the mantle as the 11th President of India is extremely inspiring for all. His story was a living example of how determination, zeal, and education can take the loosest side of a bet.

Dr. Kalam was instrumental in shaping India's defence and space policy. He was hailed both in India and abroad for his works in the field of ballistic weapons and he was part of most successful projects of ISRO and DRDO that led to an overall enhancement of the Indian Scientific Community's reputation globally. Dr. Kalam was one of a kind hearted and connected to the people.

The manner in which this former President communicated with the masses was quite singular and his uplifting addresses had scintillating effects on endless people thereby solidifying him not only a captain but also an elder, guide, and confidant of countless. His leadership period (2002-2007) was exemplified by honesty, democracy, and his deep love for education and national progress.

Presently, on the anniversary of the great visionary and Indian genius, A.P.J. Abdul Kalam, we pay not only the tribute to his great work but also to his enduring legacy that keeps shining and is still a profound source of guidance to students, researchers and dreamers who realize the utmost truth of his teachings that working tirelessly and not losing hope is the only way to make one's dreams come true.

by
G. Tapaswi VNSL
III CSE

# A Journey into Modern Agriculture

## Students Educational Tour

Students' Educational Tour – A Journey into Modern Agriculture

Exploring Innovation, Sustainability, and Real-World Practices

The Agricultural Engineering students recently embarked on an enriching educational tour aimed at deepening their understanding of modern farming technologies and sustainable agricultural systems. The journey started at Tamil Nadu Agricultural University (TNAU), Coimbatore, a hub of agricultural innovation. Here, students were introduced to renewable energy applications used in farming. They observed solar dryers, biogas units, and solar-powered irrigation systems, each designed to reduce operational costs while promoting environmentally responsible agriculture. This visit gave them a strong technical foundation in clean energy solutions and demonstrated how technology can help farmers adapt to dynamic environmental challenges.

On the second day, the students travelled to the Central Potato Research Institute (CPRI), Udhagamandalam, one of India's premier centres for potato science. Scientists explained how improved potato varieties are bred to suit diverse climates and soil conditions. Students explored topics such as disease-resistant varieties, scientific seed production methods, and the impact of biotechnology on enhancing crop quality. This hands-on exposure offered a deeper understanding of how scientific research supports national food security and connected their classroom learning to real-world advancements in crop improvement.

> The educational tour introduced students to renewable energy technologies, crop improvement research, and soil and water conservation methods. Through visits to TNAU, CPRI, and IISWC, they gained practical exposure to sustainable farming practices and engineering solutions. The trip enriched their technical knowledge, inspired innovative thinking, and strengthened their interest in sustainable agriculture.

The final day of the tour was spent at the Indian Institute of Soil and Water Conservation (IISWC), Udhagamandalam, where the focus shifted to natural resource management. Experts demonstrated conservation techniques vital for hilly and erosion-prone regions, including terracing, contour trenching, vegetative barriers, and rainwater harvesting. Students observed how these methods reduce soil erosion, conserve water, and enhance land productivity.

These experiences encouraged them to think critically and creatively about agricultural challenges, while also appreciating the practical impact of engineering in improving farming systems.

Overall, the educational tour proved to be an inspiring and transformative experience. By interacting with experts and exploring leading research institutions, the students developed a renewed passion for innovation-driven agriculture. The journey broadened their perspectives, strengthened their commitment to sustainability, and motivated them to apply these learnings to their academic work and future careers. The tour left a lasting impression, shaping their outlook toward modern, efficient, and responsible agriculture.

by
Devendar Raju Thangella
II ACSE

CLASH OF CHAMPIONS VIGNAN MAHOTSAV

# CRICKET CHAMPIONSHIP-2026

## Get Ready for the Ultimate Battle!

The Vignan Mahotsav Cricket Championship 2026 brings together teams from Vignan campuses for an exciting qualifier tournament. With cash prizes, recognition, and a chance to shine on the main stage, it celebrates sportsmanship and youth talent. The event highlights teamwork, passion, and the competitive thrill that defines Vignan Mahotsav's sporting spirit.

Vignan University is gearing up once again for an electrifying celebration of energy, enthusiasm, and unmatched sporting spirit as part of Vignan Mahotsav 2026 – The National Youth Festival. Among the vibrant mix of cultural, technical, and sports competitions, the Vignan Mahotsav Cricket Championship remains one of the most anticipated and action-packed events of the fest. Students from across the Vignan Group have been eagerly waiting for this thrilling showdown on the cricket field.

The Cricket Championship – Qualifiers mark the beginning of a high-adrenaline journey toward the grand finale of Mahotsav. Teams from various Vignan campuses will compete fiercely for their place in the championship round, each one driven by passion, precision, and the dream of lifting the coveted title. More than just a tournament, this championship is a celebration of teamwork, discipline, and the sporting spirit that unites players and spectators alike.

Cricket, often considered the heartbeat of Indian sports culture, brings together players of different strengths, shaping them into a cohesive unit guided by trust and determination. The qualifiers offer a golden platform for young cricketers to showcase their talent, sharpen their skills, and represent their campuses with pride. Every match promises unforgettable moments—power-packed batting, strategic bowling spells, stunning catches, and nail-biting finishes that will keep the crowd cheering from start to finish. With high stakes and intense competition, each run and wicket will hold the power to change the course of the game.

### Event Highlights

The Vignan Mahotsav Cricket Championship – Qualifiers will be held from October 23 to November 5, 2025, exclusively for students of the Vignan Group. Teams consisting of 13 to 15 players can participate by completing their registration with a fee of ₹150 per head. Interested teams must register before October 21, 2025 (5:00 PM) to secure a spot in the tournament. These qualifiers will determine the squads that advance to compete in the prestigious finals during the main Mahotsav celebrations.

### Exciting Rewards Await the Champions

The tournament features impressive cash prizes for the top-performing teams:

| | |
|---|---|
| 1st Prize | ₹50,000 |
| 2nd Prize | ₹30,000 |
| 3rd Prize | ₹20,000 |
| 4th Prize | ₹10,000 |

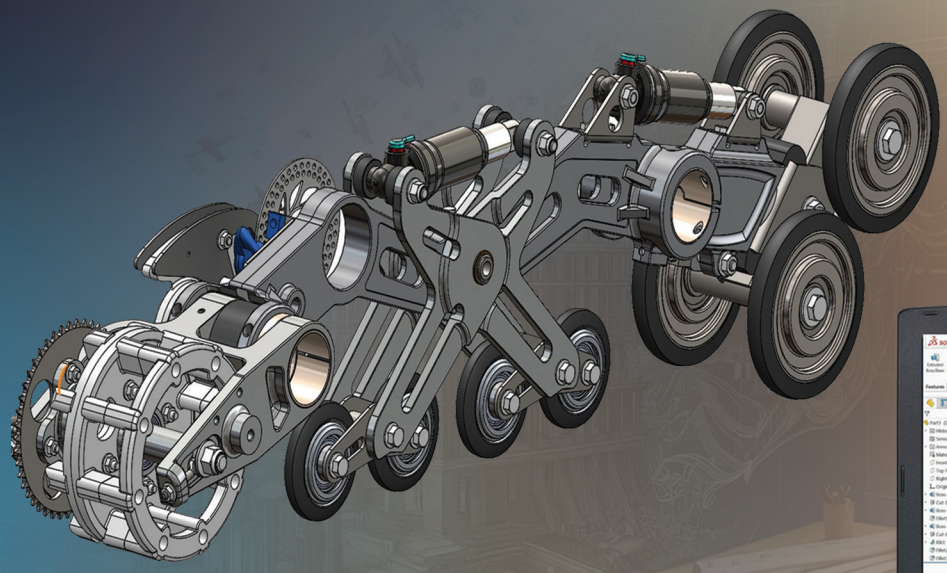
In addition to cash prizes, participants will receive certificates of recognition, and the winning teams will be honored on the main stage of Vignan Mahotsav 2026—an unforgettable moment for any young athlete.

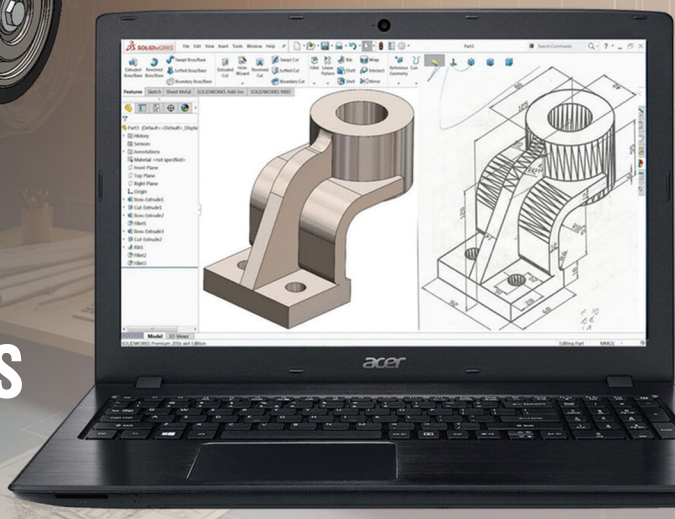
Vignan Mahotsav has always stood as a symbol of youth empowerment, talent, and excellence. It is more than just a festival—it is a platform where creativity, innovation, and athleticism come together. The cricket championship perfectly captures this spirit by blending competitive intensity with mutual respect, teamwork, and camaraderie. For players and supporters alike, it promises moments of joy, challenge, and lifelong memories.

So, gather your best players, step onto the field with confidence, and give it your all—

because in this championship, every run counts, every wicket matters, and every team dreams of glory!

by
S. HASINI
II CSE





# Shaping Ideas into Models

## SolidWorks Industry Interface Workshop

The Department of Mechanical Engineering and Robotics & Automation conducted a two-day industry interface course titled "Design and Modelling of Components Using SolidWorks" on October 24th & 25th, 2025 at VFSTR. This course was led by Mr. Vinay Kumar from Logical Solutions-Hyderabad, the program aimed to strengthen student's hands-on skills in 3D CAD modelling and expose them to industry-relevant design practices.

The course began with an introduction to the SolidWorks environment, including the Command Manager, Feature Manager, and the concept of parametric modelling, which ensures that design intent is built into every component. Students learned the fundamentals of 2D sketching, applying constraints, geometric relations, and smart dimensions to create fully defined sketches. These sketches were then transformed into 3D components using tools such as Extrude, Revolve, and Mirror.

The two-day SolidWorks workshop equipped students with hands-on skills in 3D CAD modelling, guided by industry expert Mr. Vinay Kumar from Logical Solutions. Learners explored sketching, parametric modelling, advanced features, and design refinement while also creating assemblies and professional engineering drawings. The program effectively connected classroom concepts with real industry practices, preparing students for modern engineering design challenges.

As the sessions progressed, students were introduced to advanced modelling features like Draft, Loft, and Sweep, essential for designing complex industrial components. The program also emphasized reference geometry, enabling learners to construct models on custom planes, axes, and coordinate systems.

The second day mainly focused on editing and refining models, repairing errors, and implementing design changes effectively. The concept of Configurations allowed students to create multiple variations of a part within a single file.

The course concluded with Assembly Modelling, where individual parts were brought together using mates to form complete mechanical systems. Students also learned to generate professional engineering drawings, including views, dimensions, and Bill of Materials (BOM).

Overall, the program successfully bridged theoretical knowledge with practical industry requirements, enhancing students' design proficiency and preparing them for real-world engineering challenges.

by
M. Ramya Sri
III AIML

# Solar Power Meets Smart Intelligence

## A New Wave of Clean Energy Learning

The Department of Electrical and Electronics Engineering (EEE), VFSTR, conducted a two-day Industry Interface Course titled "Applied Solar Photovoltaics and Artificial Intelligence" on 23rd and 24th October 2025. The sessions were led by Sri Gowri Ganesh, Senior Team Executive at Reliance Industries Limited, Jamnagar, who shared deep industry experience in solar PV technologies, quality systems, and AI-based diagnostics. His practical insights helped students understand how clean energy and intelligent systems are merging to transform the power sector.

The workshop explored how the fusion of Solar Photovoltaics and Artificial Intelligence is shaping smarter, more reliable energy systems. Students learned how AI enables real-time monitoring, performance forecasting, predictive maintenance, and automated fault detection—making solar installations more efficient and easier to manage. The sessions also covered the solar PV value chain, module design, essential components, and global certification standards such as IEC 61215 and IEC 61730, helping students appreciate the engineering behind safe and durable PV systems.

One of the major highlights of the course was the demonstration of sophisticated defect detection methods widely used in the solar industry. Participants observed how visual inspection, electroluminescence imaging, and thermal scanning help identify panel defects with high accuracy. These demonstrations also introduced students to the growing use of drones, advanced imaging tools, and AI models that are revolutionising PV diagnostics and quality assurance in large solar plants.

On the second day, the students visited the rooftop solar installation on campus, where they observed the live behaviour of PV modules under natural conditions. They monitored real-time power output, system efficiency, and environmental effects, gaining a practical understanding of solar performance assessment. Combined with case studies and interactive discussions, the hands-on session allowed students to apply classroom knowledge directly to real-world equipment.

> This workshop introduced students to the powerful combination of solar PV technology and artificial intelligence. They explored real-time monitoring, defect detection, and industry safety standards, and gained hands-on experience with the campus solar setup. The sessions strengthened their practical skills and encouraged them to pursue innovative careers in clean and intelligent energy systems.

Overall, the workshop significantly enhanced students' technical knowledge in solar PV performance evaluation, AI-based data interpretation, and predictive maintenance strategies. Guided by Dr. A.R.Vijay Babu, the initiative successfully connected academic learning with industrial expectations and inspired students to explore future careers in renewable energy technologies, smart grids, and AI-driven power systems.

by
T. Vasavi Lakshmi Sree
III CSE

# DevOps Unleashed

## Empowering VFSTR Students for a Future in Tech


The six-day DevOps Master Program introduced students to essential tools like AWS, CI/CD pipelines, and Docker through practical, industry-oriented training. Led by expert Mr. Pradip Patel, the workshop strengthened students' technical confidence and real-world problem-solving skills. The Capstone Project offered hands-on cloud deployment experience, preparing students for careers in DevOps, cloud engineering, and automation.

The Department of ACSE, VFSTR, organized a six-day DevOps Master Program for final-year students from October 27 to November 1, 2025, in N-Block. Designed with a strong industry-oriented focus, the program aimed to equip students with essential skills in DevOps—one of the most crucial areas supporting modern software development, deployment pipelines, and efficient operational workflows. The sessions were tailored to help students understand how real-world tech companies streamline their processes through automation and collaboration.

The workshop was led by Mr. Pradip Patel, Chief Technical Officer at DevOpsDeep Pvt. Ltd., and an experienced Site Reliability Engineer who has previously worked with Alation in the USA, EPAM Systems, and Future Group India. With deep expertise in cloud platforms, automation frameworks, and continuous integration and deployment practices, he offered students a clear understanding of how DevOps principles are applied in fast-paced industry environments. His sessions emphasized the importance of agile methodologies, automated workflows, and strong collaboration—skills that are now essential in every tech-driven organisation.

The program covered a range of core topics including Linux fundamentals, AWS cloud services, CI/CD pipeline creation, Docker containerization, and the deployment of applications through cloud infrastructures. Each topic was taught through a blend of theory, hands-on practice, live demonstrations, and interactive problem-solving sessions. This structure ensured that students not only understood the concepts but also gained the confidence to implement them independently. The practical nature of the sessions made the learning process dynamic, engaging, and strongly aligned with the expectations of today's software industry.

A key highlight of the program was the Capstone Project, where students were tasked with designing, building, and deploying a basic cloud-based environment. This project encouraged teamwork, critical thinking, and the application of multiple DevOps tools in a realistic scenario. By working through the entire lifecycle of a cloud deployment, students experienced what it means to be adaptable, technically skilled, and solution-oriented—qualities that are highly valued in DevOps and cloud engineering roles.

The program was meticulously coordinated by Dr. Jyosina Devi Bodapati from the ACSE department, whose leadership ensured smooth planning and delivery. Students expressed highly positive feedback, noting that the workshop significantly boosted their confidence in using DevOps tools and prepared them for careers in software development, cloud technologies, automation, and reliability engineering. The initiative reflects VFSTR's strong commitment to providing industry-relevant education and shaping students to meet the evolving needs of the technology sector.

By bridging academic learning with practical, hands-on skills, the DevOps Master Program not only enriched the students' learning experience but also positioned them to excel in their future careers and contribute meaningfully to the IT industry and technological innovation.

By
Jahnavi Kamepalli
III Cyber Security

## Andhra Rashtra Avatarana
# Naati Nundi Neti Varaku
### (From the Formation of Andhra Rasta till Today)


On the occasion of Andhra Pradesh Formation Day, Dr. Ramesh Babu Para, Assistant Professor of Political Science, Department of Social Sciences and Humanities, Vignan's Foundation for Science, Technology and Research (Deemed-to-be University), delivered an insightful and thought-provoking talk on the theme ""Andhra Rashtra Avatarana Naati Nundi Neti Varaku" From the Formation of Andhra Rasta till Today).

In his address, Dr. Ramesh Babu traced the historical trajectory of the Andhra movement, beginning with the linguistic reorganization of states and the creation of the first linguistic state, Andhra, in 1953 following the sacrifices of Potti Sriramulu and several other leaders. He emphasized how the aspiration for self-governance, linguistic identity, and equitable development shaped the foundation of Andhra society.

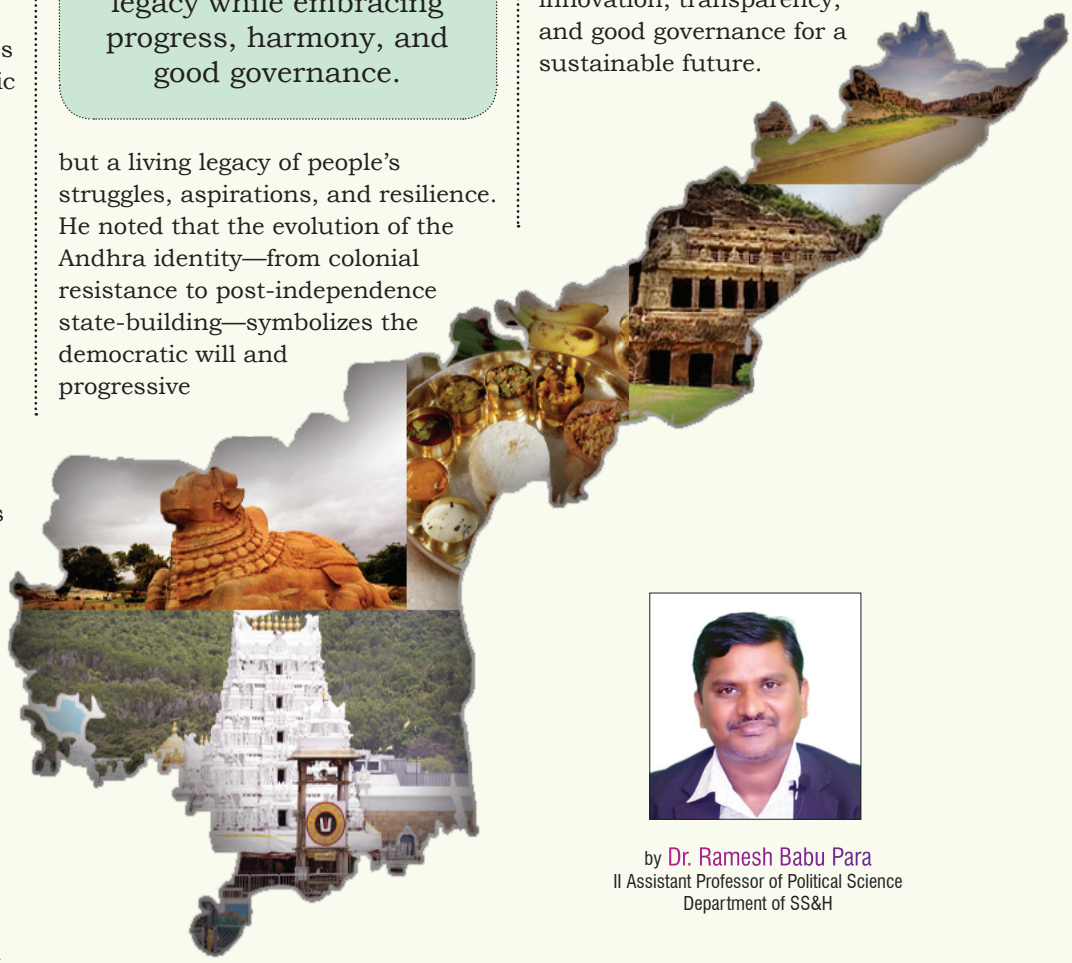
Highlighting the period between 1953 and 1956, when Andhra State merged with the Telangana region to form the united Andhra Pradesh, Dr. Ramesh analyzed the political evolution that led to today's bifurcated administrative reality. He reflected on the bifurcation of 2014, which once again transformed the socio-political map of the state and brought new challenges in areas such as capital development, regional balance, and cultural integration.

Dr. Ramesh Babu emphasized that Andhra Pradesh's history is not merely an administrative chronicle but a living legacy of people's struggles, aspirations, and resilience. He noted that the evolution of the Andhra identity—from colonial resistance to post-independence state-building—symbolizes the democratic will and progressive spirit of its citizens.

> Dr. Ramesh Babu Para's radio talk traced Andhra Pradesh's journey from its formation in 1953 to the present day, highlighting sacrifices, linguistic identity, and political transitions. He reflected on the 2014 bifurcation and the state's ongoing developmental challenges. The session encouraged youth to uphold the state's legacy while embracing progress, harmony, and good governance.

He also pointed out that the current phase of reconstruction and policy reform demands renewed attention to inclusive development, regional harmony, and equitable growth. The talk underscored the role of political institutions, social movements, and visionary leadership in shaping the modern Andhra ethos.

The session concluded with an appeal to the younger generation to preserve the legacy of the Andhra movement while embracing innovation, transparency, and good governance for a sustainable future.





by Dr. Ramesh Babu Para
II Assistant Professor of Political Science
Department of SS&H

# Visiting Culture through Literature

On 22 October, a group of fifteen members from the Department of English and Other Indian and Foreign Languages, VFSTR, visited Amaravati to attend the Literature Festival organised by the English Department at SRM University, AP. This visit was undertaken as a part of the outreach activity requirement for the students of M.A. English program. They were accompanied by a few research scholars and four faculty members, namely Dr K Srinivasa Rao (Coordinator, MA English), Dr Reema Chakrabarti (Lead Faculty, NLIE), Dr G Nageswara Rao (BoS, English Department) and Dr K Naresh (BoE, English Department). The University provided them a bus to ensure a smooth and timely arrival at the venue.

The event began with the warm addresses by the Vice-chancellor, Dean-ESLA, and the HOD of Literature and Languages Department. They highlighted the vision of this festival by emphasizing how it aims to bring together culture, creativity, and Literature. Thereafter the keynote speech was delivered by the Sahitya Akademi Award winning Telugu Poet and Author Volga (P Lalita Kumari). Thereafter, she was also engaged in a thought-provoking discussion with Ramesh Nayak, a Sahitya Akademi Yuva Puraskar winning Telugu author.

Her feministic views both in her works and the conversations emphasized the significance of women's liberation from the bondage of societal relationships when met with humiliation, disrespect, ordisregard of her happiness. Her words became a source of profound knowledge and inspiration for the young women audience present there. After a short tea break, the discussion continued with P Satyavati- renowned Telugu author and Pavan Santhosh- Telugu writer and Film Historian. She shed light on her experiences and hardships which she had met with while breaking the stereotypes associated with womanhood and achieving her own identity. Around 1 PM, all the guests were cordially escorted for lunch to another building.

The afternoon session began with an enlightening conversation with two authors- Manisha Sobhrajani- an independent researcher & civil society worker, and Millo Ankha- an indigenous poet and author. While Sobharajani threw light on how her works are inspired by the traumatizing lives of Kashmiri women amidst their political circumstances and societal challenges, Millo talked about her works concerning the women of Arunachal Pradesh. Both highlighted the problems of representing the marginalized group of women. The exceptionally organized event ended with one final conversation with Kadali Satyanarayana.

Overall, this entire event bore testimony to the fact that literature not only delights while teaching but also strengthens the weak, voices the voiceless, and recognizes the marginalized. Such events cross the boundaries of academia or entertainment and overwhelms the heart and mind juxtaposing the two into one.

by Syed Khurshud Begum
II MA

# VIGNAN'S UEAC'S OU

## Inspire Health, Awaren

Vignan University's University Extension Activity Cell (UEAC) continues to strengthen its role in community service by organizing a series of impactful outreach programs aimed at building healthier, more aware, and self-reliant communities. Through these initiatives, UEAC not only extends support to surrounding villages but also instills social responsibility and empathy among student volunteers. Each program, though diverse in focus, shares a common theme—empowering people with knowledge, wellness, and sustainable practices for a better tomorrow.

One of the key initiatives was "Say No to Drugs: Building a Healthier Future," a strong awareness program highlighting the dangers of substance abuse and encouraging students to adopt a responsible, drug-free lifestyle. The campaign aimed to guide young minds toward healthier choices and reinforce the message that well-being begins with mindful decisions.

UEAC conducted multiple community awareness, women empowerment, ch and disease prevention. Each initiati through knowledge and support while e in social responsibility. Collectively, t commitment to building healthier, em

UEAC also organized "Future is Female-Founded: Inside the Rise of Women Entrepreneurs," a special camp held in Suddapalli to empower rural women. The session introduced participants to small-

**Heal Habits, Hea**
Awarene Orphanag

**Future is Female-Founded**
Inside the Rise of Women Entrepreneurs

The team UEAC conducted the "Say No to Drugs: Building a Healthier Future" program to raise awareness about substance abuse and encourage a healthy, drug-free lifestyle among students.

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**Say No To Drugs**
Building a Healthier Future

The team UEAC conducted the "Say No to Drugs: Building a Healthier Future" program to raise awareness about substance abuse and encourage a healthy, drug-free lifestyle among students.

**COMM FIR**

# UTREACH PROGRAMS
## ness & Empowerment

y outreach programs focusing on drug
ild health, groundwater conservation,
ive aimed to uplift local communities
ncouraging students to take active roles
hese efforts reflect Vignan University's
powered, and sustainable societies.

scale business opportunities, skill development, and financial independence. By inspiring women to explore entrepreneurship, the program contributed to long-term community development and economic upliftment.

In Brahmanakoduru, the team conducted "Healthy Habits, Happy Hearts," a warm and interactive awareness campaign for orphanage children. The session covered personal hygiene, healthy eating, emotional care, and daily habits that support overall well-being. Volunteers ensured the children felt encouraged, valued, and supported with guidance they can apply throughout their lives.

UEAC's commitment to sustainability was reflected in the campaign "Be the Change: Recharge Groundwater," held at Viranayakula Palam. Volunteers educated villagers about groundwater depletion, rainwater harvesting, and simple community-level solutions to improve water sustainability. The program emphasized collective responsibility in protecting natural resources.

Another important initiative was the "Awareness on Common Diseases" session at Sudhapalli Village. The program focused on preventive care, early detection, and affordable ways to maintain good health. By simplifying medical information, the volunteers helped villagers understand how small lifestyle changes can prevent major illnesses.

Together, these community-centered programs highlight UEAC's dedication to service, empowerment, and holistic development. Through continuous outreach, the team nurtures a culture of compassion among students while uplifting the surrounding communities with knowledge, health awareness, and practical solutions for everyday challenges.

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ss for ge Kids

m UEAC zed the Habits, Hearts" ign at koduru to rphanage on health, nutrition, onal well-ng.

**Be the Change**
Recharge Groundwater

The team UEAC organized an awareness program at Viranayakula Palam to educate villagers on groundwater recharge, rainwater harvesting, and sustainable water conservation practices.

**Awareness on Common Diseases**
A Step Towards a Hevalthier Community

A health awareness program promoting disease prevention and healthy living was organized at Sudhapalli Village to educate the community on simple, effective ways to lead a healthier life.

**UNITY RST**

by
R. V. Saranya
III CSE

# UNDERSTANDING R25
## A FACULTY INSIGHT PROGRAM


The two-day Faculty Understanding Program at VFSTR strengthened faculty awareness of the R25 academic framework, guided by insightful sessions from the Hon'ble Vice-Chancellor Col. Prof. P. Nagabhushan. The program emphasized depth and breadth of learning, continuous assessment, and unified academic practices. It reinforced VFSTR's commitment to future-ready education and holistic student development.

The Academy for Faculty and Staff Development (AFSD), in collaboration with the Office of Academics, Awards, and Assessments (AAA), organized a two-day Faculty Understanding Program focused on the R25 Regulations at VFSTR (Deemed to be University). The initiative aimed to strengthen faculty awareness and implementation strategies for the revised academic framework.

Hon'ble Vice-Chancellor Col. Prof. P. Nagabhushan served as the esteemed Resource Person for the program. With his vast academic expertise, he delivered compelling insights into the philosophy, structure, and goals of R25, highlighting how the revised regulations have been designed to foster better learning outcomes and future-ready graduates.

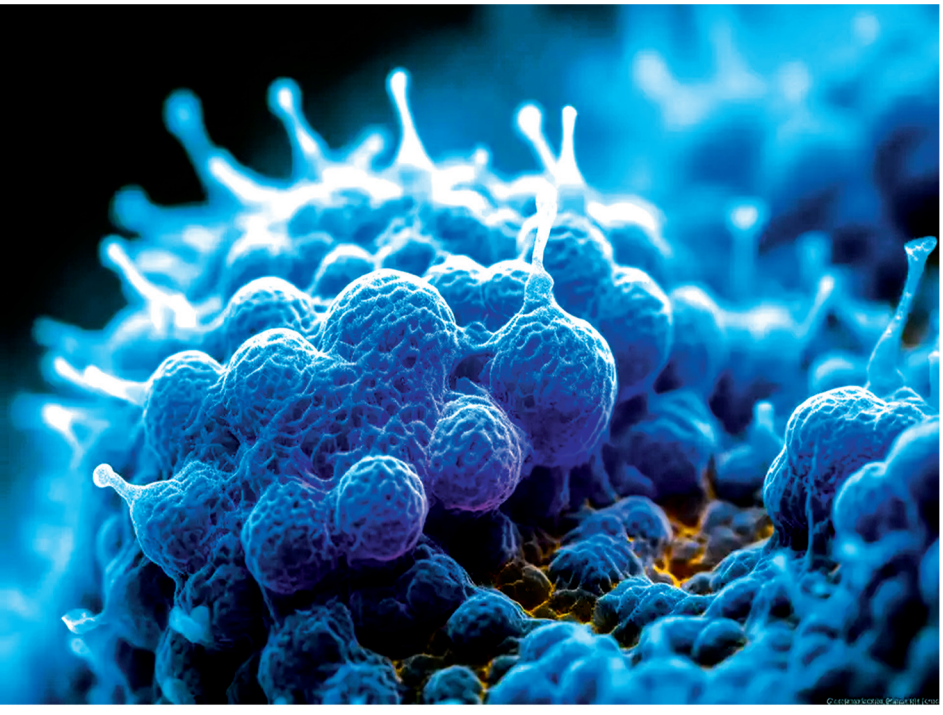
During the sessions, the principles of Breadth and Depth of Learning were emphasized, encouraging faculty to support students in gaining both comprehensive knowledge and strong conceptual understanding. The framework promotes critical thinking, innovation, and application-based learning, ensuring that students are well-prepared for real-world challenges.

A major focus of R25 lies in continuous assessment, which enables consistent academic progress and reduces examination-centric stress. The program also highlighted the importance of a unified academic platform for students, ensuring equal learning opportunities across disciplines. Additionally, the introduction of pre-semester orientation programs for B.Tech students was discussed as a vital step in helping first-year learners transition smoothly into the university environment.

The event concluded with a reaffirmation of VFSTR's ongoing commitment to academic excellence, faculty development, and holistic student growth. The program served as a valuable platform for capacity building, enabling faculty members to align with the evolving educational standards under R25.

by
A. Rishitha
III CSE

# Exploring Body-Fluid Exosomes for Oral Cancer Diagnosis and Prognosis



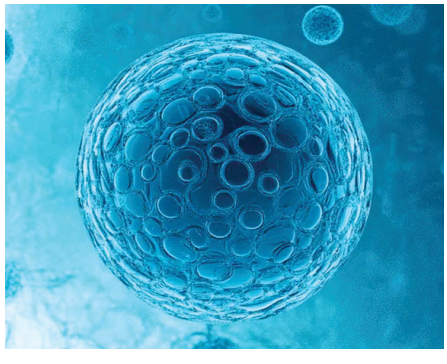
The Department of Bioinformatics hosted a guest lecture on 24th October 2025 by Dr. S. Karthik Kumar, Scientist at Apollo Hospitals, Jubilee Hills, Hyderabad. His talk, titled "Exploring Body Fluid Exosomes for Oral Cancer Diagnosis and Prognosis," focused on how non-invasive biomarkers can transform patient care and improve the accuracy of early cancer detection.

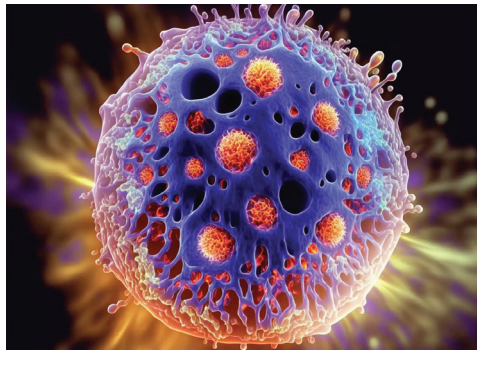
Dr. Karthik Kumar highlighted that oral cancer continues to be a major health challenge, primarily because many cases are diagnosed only in the later stages. Current diagnostic methods, while useful, often miss early warning signs. He explained that exosomes—tiny vesicles naturally released into saliva, blood, and other body fluids—carry tumor-specific molecular signatures that could make early diagnosis more reliable and accessible.

**This lecture introduced students to the role of exosomes as promising non-invasive biomarkers for early oral cancer detection. Dr. Karthik Kumar explained their molecular significance, the methods used to study them, and how exosome-based liquid biopsies could transform future screening and treatment approaches.**

He further discussed growing research on exosomal microRNAs, proteins, and nucleic acids, emphasizing that studying these molecules can help identify biomarkers linked to tumor growth and progression. Dr. Karthik Kumar also outlined key techniques used in exosome research, such as ultracentrifugation, nanoparticle tracking analysis (NTA), electron microscopy, and molecular profiling, explaining how each method contributes to isolating and understanding exosomal content.

The lecture concluded with an insightful discussion on the future of cancer diagnostics. Dr. Kumar noted that exosome-based liquid biopsies have the potential to revolutionize oral cancer screening, enable more precise treatment monitoring, and support the advancement of personalized medicine—making diagnostic processes less invasive and more patient-friendly.





by
G. Srinikhi
III CSE

# Digital HR Transformation

## Adapting ourselves to the Future of Work

The session on Digital HR at Vignan's University explained how AI, analytics, and cloud technologies are reshaping HR functions for future workplaces. Students learned about digital recruitment, data-driven performance systems, and overcoming change resistance. The interactive session highlighted the growing importance of technological skills, agility, and innovation in building modern, employee-centric HR practices.

The Department of Management Studies conducted a session "Digital HR Transformation: Adapting to the Future of Work" for MBA students. The resource person was Mrs. Sushma Uday, an HR professional from Wipro (Sector A2).

She exhibited her knowledge and guided the students with the help of her experiences how the HR functions are digitally transformed by cutting-edge technologies to satisfy the requirements of futuristic workplaces.

She illustrated the scenario with how HR is moving from traditional processes to digital means with the support of AI, analytics, and cloud platforms. These instruments rejuvenate recruitment, performance management, and employee engagement processes thus they become more efficient, simultaneously, they facilitate data-driven decision-making. The event also touched upon the topics of change resistance and requirement of digital skills.

The students were extremely active during the session as they took part in group discussions, live polls, and case studies which made it easier for them to understand the practical application of digital HR concepts in the real world. Their contributions about the latest HR trends made the session a two-way communication channel.

In short, the lecture provided deep insight to the audience about digital HR practices and their impact on future work. It also underlined that traits like agility, innovation, and technology use are indispensable for the successful implementation of effective, employee-centric HR systems.

by
N. Praveen Sai
III CSE

# Law, Justice and More

## Interview with Justice Jasti Chalameswar,

Former Judge of the Supreme Court of India

*Q. In a recent Supreme Court judgment, it was stated that three years of practice in courts is required before entering judicial services. What areas should young law graduates learn during this period?*

A. Justice Chelameswar Sir observed that law schools primarily provide theoretical knowledge, but real practical skills must be developed through experience. He recommended that students should associate themselves with senior advocates to learn the essential practical aspects of legal work: understanding court fees, drafting and filing cases, managing documentation, and mastering day-to-day courtroom procedures. He stressed that these practical lessons are best learned in the environment of actual courts, complementing formal legal education.

*Q. There is an ongoing debate in India about making the LL.M. program a mandatory two-year course for academic purposes. What is your advice on this matter for students?*

A. Justice Chelameswar Sir clarified that for those interested in legal practice, an LL.M. degree is not necessary. He explained that practical experience and direct involvement in cases is far more beneficial for advocates. However, students considering careers in academia or research may gain from a longer and more intensive LL.M. program, which helps develop research and analytical abilities.

*Q. What are the current career opportunities for young lawyers in the area of corporate law?*

A. Justice Chelameswar Sir highlighted that corporate law offers numerous avenues for young professionals, including company law, mergers and acquisitions, taxation, Alternative Dispute Resolution (ADR), intellectual property rights, and compliance roles. He noted that as India's business landscape expands, corporate law professionals are in high demand, and students can carve out lucrative and impactful careers with proper specialization and training.

*Q. With over five lakh cases pending and comparatively few advocates, India's legal system faces criticism for delays in delivering justice. How do you view this problem and possible solutions?*

A. Justice Chelameswar Sir described this issue as highly complex, involving many deep-rooted factors. He emphasized that while quick judgments are important, it is even more vital to deliver judgments that are thorough and fair. Speed should not come at the cost of justice. He suggested that long-term solutions include judicial reforms, increasing the strength of judges and staff, and updating procedures—always prioritizing the quality of judgments.

*Q. Can you explain the significance of the judgment in Tamil Nadu State Government v. Secretary of State regarding judicial activism and judicial overreach?*

A. Justice Chelameswar Sir explained that, constitutionally, the Governor is part of the executive with powers to assent to or send back bills for reconsideration, but not to dissent. He cautioned that when the judiciary intervenes in executive affairs beyond its constitutional remit, it may become an instance of judicial overreach. While judicial activism is necessary to safeguard rights, maintaining a clear separation between judiciary and executive ensures constitutional balance and proper functioning of governments.

by H. Sahithi, V BBA, LL.B | B SANDHYA, V BA, LL.B | Taj Mahamud Beg, V BA, LL.B | K Jagruthi, IV BA, LL.B | Durga Bhavani, II BA, LL.B | Vigna Sri, II BA, LL.B

# ECHOES OF SUDAN

Sudan, a nation once celebrated for its warmth, diversity, and cultural richness, is today enduring one of the darkest chapters in its modern history. As the conflict continues to spread across regions, countless families have been forced to flee their homes, leaving behind memories, communities, and dreams that once defined their lives.

Sudan, a nation once celebrated for its warmth, diversity, and cultural richness, is today enduring one of the darkest chapters in its modern history. As the conflict continues to spread across regions, countless families have been forced to flee their homes, leaving behind memories, communities, and dreams that once defined their lives. In the region of Darfur, particularly in the city of El-Fasher, life has been turned upside down.

Once known for its lively markets, hospitality, and strong sense of community, El-Fasher has now become a place of heartbreak. In just a few days, thousands of lives were affected — many killed, displaced, or missing — as violence and destruction swept through the city. Families were torn apart, homes reduced to ashes, and the cries for safety echoed far beyond Sudan's borders.

Yet, even in the face of unimaginable loss, the Sudanese people continue to show extraordinary courage. Mothers protect their children with hope stronger than fear, volunteers risk their lives to deliver food and medicine, and communities cling to faith that peace will one day return. Their resilience stands as a testament to the unbreakable human spirit.

For the Sudanese people, the crisis is not only about war — it is about survival, dignity, and hope. Entire families have been displaced, many now living in makeshift camps and struggling each day to find food, water, and safety. Still, amid such adversity, the courage and endurance of the Sudanese people continue to inspire the world.

The war, which began on April 15, 2023, was mainly caused by the Rapid Support Forces (RSF), who turned their weapons against the national army and the Sudanese people. Reports say that the United Arab Emirates (UAE) is the main backer of the Rapid Support Forces, providing them with weapons, fighters, and military supplies.

# Voices From ElFasher

This support helped the RSF spread the conflict across the country, especially in EIFasher, leading to mass killings, looting, sexual violence, ethnic cleansing, and the destruction of homes and infrastructure. Since the beginning of the war, more than 45,000 people have been killed and over 12 million displaced, creating one of the world's worst humanitarian crises today.

As a Sudanese student at Vignan's University, I feel it is my responsibility to share these stories — not to spread despair, but to raise awareness and empathy among my fellow students. Many of my friends here in India, coming from diverse countries and cultures, have shown solidarity once they understood the reality in Sudan. It reminds us that compassion knows no borders.

In a world where news fades quickly, it becomes our duty as students to stand for peace, humanity, and justice. Every voice that speaks against violence, every heart that feels the pain of another, becomes a step toward a better future.

From El-Fasher to every heart that still hopes, may the voices of Sudan be heard and embraced with understanding, empathy, and peace.

by
Omer Eltayeb
II- B.Pharmacy, Sudan.

# Environment is the Basis of Earth's Existence

This article stresses the inseparable bond between humans and nature, explaining how environmental harm and climate change threaten life on Earth. It highlights the urgent need for conservation, awareness, and reconnecting society with nature. Protecting natural resources, reducing pollution, and understanding climate impacts are essential for sustaining life and preserving the planet.

Nature and man are complementary to each other. Man cannot be imagined without nature. Nature in terms of hindi language means - Prakriti is made up of two words - Pra and Kriti. Pra means (superior/best) and Kriti means creation. Nature is the best creation of God. Creation comes from nature. Prakriti means the essence of which the world is the result. That is to say, the entire universe has been created by nature itself. There are two types of nature – natural nature and human nature. Natural nature consists of five elements – earth, water, fire, air and sky. Human nature consists of mind, intellect and ego. There is a very close relationship between nature and man. There is no better teacher for man than nature.

Human life is not possible without nature. It is not right to harm the environment in the race of development and modernity. We are moving away from nature. We have to travel a long distance to see waterfalls, rivers, lakes and forests. We are also facing the brunt of harming the environment from time to time. Sometimes there is a flood and sometimes there is a cloudburst. Somewhere the water in the earth is drying up and somewhere the land is spewing fire. All this is happening only because of climate change. Climate is used to express the condition of the atmosphere of a place. The word is quite close to the season. There is some difference between climate and weather. Climate is used for large plots only for a large period while weather is used for small space for relatively small periods. Estimates about Earth's temperature in the past suggest that it was either very high or very low.

Mainly, the balance between the energy received from the Sun and its loss determines the climate and temperature balance of our Earth. This energy is distributed around the world by winds, ocean currents and other systems and affects the climate of different regions. Climate is the major factor controlling the environment. Because natural vegetation, soil, water bodies and fauna are affected by the climate. Climate affects the mental and physical activities of human beings. The climate is the most influential of the factors affecting humans because it also controls other factors of the environment. That is to say, conservation of the earth is possible only when our environment is pure. Climate change remains a matter of concern in the world. The physical development of cities is the biggest cause of climate change. Climate change plays an important role in soil conservation. Therefore there is a need to connect the society with nature and bring the society closer to nature. Communities have to be aware about soil conservation and nature.

The circle of protection of the earth is the atmosphere. Nature has the same treatment for the whole human race. Nature is not related to a particular religion. Therefore all mankind should consider nature as their original existence. The Earth's atmosphere captures some of the Sun's energy, which is called the Green House Effect. There is a layer of greenhouse gases around the earth. These gases include carbon dioxide, methane, and nitrous oxide. These gases exploit the sun's energy and heat the earth's surface, due to which the climate of the earth is changing. Industrial agriculture can degrade soil health, contribute to deforestation, and reduce land available for other vital ecological functions. High consumption of meat and other resource-intensive foods places a disproportionate strain on land and water resources. Therefore we can say that pure environment is the basis of existence of the earth.

by
Dr. Shanker Suwan Singh
Senior Columnist and Thinker
Associate Professor
Food Technology
VFSTR

# BHARATIYA BHASHA PARIWAR

## A Platform for Decolonizing Indian Linguistics

Vignan is set to host the prestigious two-day national conference "Bharatiya Bhasha Pariwar" on 19–20 December 2025, organized in collaboration with the Bharatiya Bhasha Samiti (BBS) under the Ministry of Education, Government of India. The proposal has been formally approved by the competent authority, with a sanctioned budget of ₹3,94,000, and preparations are underway as per the Standard Operating Procedures shared by BBS

The conference aims to bring together scholars, linguists, researchers, teachers, and policy experts to deliberate on two landmark volumes published by BBS— "Bharatiya Bhasha Pariwar: A New Framework in Linguistics" and "Collected Studies on Bharatiya Bhasha Pariwar: Perspectives and Horizons." The event will explore a transformative, indigenous approach to understanding Indian languages, moving beyond colonial frameworks and highlighting India's deep linguistic unity and cultural interconnectedness

गृह मंत्रालय
MINISTRY OF
**HOME AFFAIRS**
सत्यमेव जयते

The seminar will feature keynote and expert sessions from distinguished national and regional scholars, including resource persons from CIIL Mysuru, University of Hyderabad, University of Allahabad, Central University of Karnataka, and SRM University AP

With a mission to strengthen mother-tongue education, promote decolonised linguistic thought, and encourage interdisciplinary dialogue, the event also invites paper presentations from academicians and researchers across the country. Selected participants will receive free accommodation, and exceptional papers may be considered for publication in reputed journals at no cost.

This conference marks an important step in national efforts to revitalize Indian languages and advance the vision of the National Education Policy (NEP) 2020, reinforcing Vignan's commitment to academic excellence and cultural enrichment.

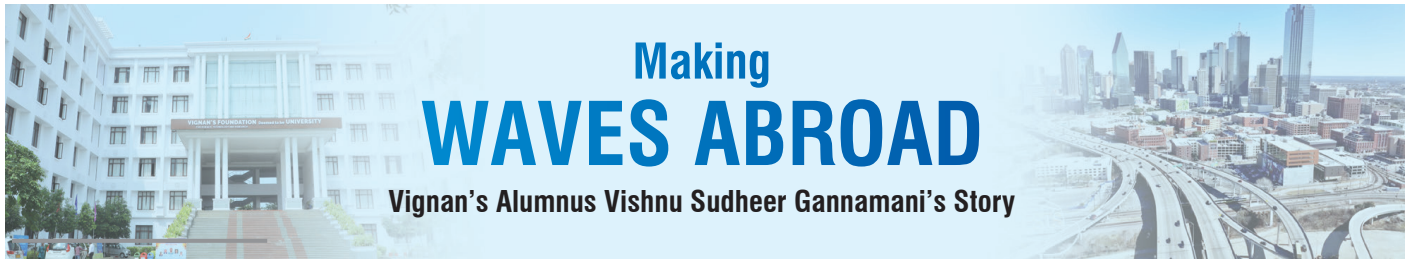
**National Coordinator**

Prof. Susheel Kumar Sharma,
Academic Director,
Bharatiya Bhasha Samiti
Ministry of Education, New Delhi

**Local Coordinator**

Dr. Gomatam Mohana Charyulu,
Professor and HoD (English)
EoFL, SASH, VFSTR (Deemed to be University),Vadlamudi 522213. A.P. Cell: 9705513379 / 9440354879

by
Dr. Gomatam Mohana Charyulu
Professor
Head of English Department



# Making WAVES ABROAD

## Vignan's Alumnus Vishnu Sudheer Gannamani's Story

SUCCESS STORY

Vishnu Sudheer Gannamani, a proud Vignan alumnus, built a strong academic foundation during his B.Tech , supported by dedicated faculty, friends, and industry exposure through TCS. Driven by a passion for AI and ML, he pursued his master's degree in Canada, where he found academic growth and professional opportunities. Today, he is a Senior Consultant at Capgemini Canada, crediting Vignan University for shaping his skills, confidence, and global career path.

The journey of Vishnu Sudheer Gannamani through Vignan's University has been one filled with meaningful experiences, valuable lessons, and unforgettable memories. During his time at Vignan, he was guided by excellent faculty members who constantly encouraged learning and growth. Surrounded by supportive friends and a lively academic environment, Vishnu cherishes those years as some of the most memorable moments of his life.

As technology continued to evolve, Vishnu developed a strong interest in the rapidly growing fields of Artificial Intelligence and Machine Learning. This passion became the driving force behind his decision to pursue higher studies abroad. Canada, with its welcoming environment, global academic standards, and immense job opportunities, stood out as the perfect destination. The friendly and inclusive nature of Canadian society, which warmly embraces newcomers and helps them build successful careers, deeply inspired him to take this step.

Throughout his academic journey, Vishnu faced no major challenges regarding higher education or employment. In fact, during his fourth year of B.Tech, he was placed in Tata Consultancy Services (TCS), where he also completed a six-month internship that provided valuable professional exposure and strengthened his practical skills.

Among the many highlights of his time at Vignan, one experience stands out vividly when his parents were felicitated during his 3rd and 4th years of study. It was a moment of immense pride and happiness for him, symbolizing the recognition of his hard work and his family's unwavering support.

After completing his degree, Vishnu began his professional journey with TCS, gaining valuable experience and a strong foundation in the corporate world. His ambition and dedication led him to pursue a master's degree at Lakehead University, Canada, where he further enhanced his technical expertise and global perspective.

Today, Vishnu Sudheer Gannamani is successfully working as a Senior Consultant at Capgemini Canada. It took determination, perseverance, and consistent effort to reach this milestone, but each step of his journey from Vignan to Canada has been a rewarding experience. He continues to credit Vignan's University for providing the strong academic and personal foundation that helped shape his successful career and inspiring professional journey.

by
R. V. Saranya
III CSE

# Research

## Faculty with Distinction - H-Index 10 and above

VIGNAN

Prof. P. Nagabhushan
Vice-Chancellor

## H-Index Details

| S.No | Name of the Author | Department | H-Index |
|---|---|---|---|
| 1. | Dr. P. Nagabhushan | CSE | 33 |
| 2. | Dr. K. Krishna Kishore | CSE | 15 |
| 3. | Dr. S. V. Phani Kumar | CSE | 12 |
| 4. | Dr. B. Jyosthsana Devi | ACSE | 15 |
| 5. | Dr. K. Chandra Sekhar | BT | 41 |
| 6. | Dr. A. Ranga Rao | BT | 26 |
| 7. | Dr. Satya Sampath Kumar | BT | 20 |
| 8. | Dr. Anjani Devi Chintagunta | BT | 18 |
| 9. | Dr. Shaik Firdoz | BT | 17 |
| 10. | Dr. K. Srikanth | BT | 16 |
| 11. | Dr. T. C. Venkateswarlu | BT | 16 |
| 12. | Dr. D. Vijaya Ramu | BT | 16 |
| 13. | Dr. Anil Kumar Samanaboina | BT | 15 |
| 14. | Dr. D. John Babu | BT | 14 |
| 15. | Dr. Karlapudi Abraham Peele | BT | 14 |
| 16. | Dr. M. Indira | BT | 13 |
| 17. | Dr. D. Syam Babu | BT | 13 |

| S.No | Name of the Author | Department | H-Index |
|---|---|---|---|
| 18. | Dr. Md. Nazneen Bobby | BT | 12 |
| 19. | Dr. T. Subbaiah | Chemical | 20 |
| 20. | Dr. Ramesh Naidu | Chemical | 11 |
| 21. | Dr. A. Siva Sankar | Civil | 16 |
| 22. | Dr. Satyajeet Sahoo | ECE | 15 |
| 23. | Dr. M. Subbarao | EEE | 12 |
| 24. | Dr. N. Bharath Kumar | EEE | 12 |
| 25. | Dr. A. R. Vijay Babu | EEE | 11 |
| 26. | Dr. N. Veeranjaneyulu | IT | 15 |
| 27. | Dr. Hemanth Kumar Bhuyan | IT | 13 |
| 28. | Dr. M. Ramakrishna | Mechanical | 14 |
| 29. | Dr. T. CH. Anil Kumar | Mechanical | 14 |
| 30. | Dr. Md. Atiqur Rahman | Mechanical | 11 |
| 31. | Dr. Yarlagadda Jyothi | Mechanical | 11 |
| 32. | Dr. Goswami Anandarup | Chemistry | 26 |
| 33. | Dr. K. Prabhakara Rao | Chemistry | 19 |
| 34. | Dr. Subbalakshmi Sengupta | Chemistry | 17 |

| S.No | Name of the Author | Department | H-Index |
|---|---|---|---|
| 35. | Dr. T. Bharath Kumar | Chemistry | 17 |
| 36. | Dr. Sudip Mandal | Chemistry | 16 |
| 37. | Dr. Srinivasadesikan | Chemistry | 16 |
| 38. | Dr. Anwar Shaik | Chemistry | 15 |
| 39. | Dr. K. Ravi Kumar | Chemistry | 14 |
| 40. | Dr. Jitendriya Swain | Chemistry | 14 |
| 41. | Dr. Harisekhar Mitta | Chemistry | 14 |
| 42. | Dr. N. Srinivasu | Chemistry | 13 |
| 43. | Dr. K. Krishna Devi | Chemistry | 13 |
| 44. | Dr. Ch. N. S. Sai Pavan Kumar | Chemistry | 13 |
| 45. | Dr. D. Nagaraju | Chemistry | 11 |
| 46. | Dr. M.V. Subba Rao | Mathematics | 17 |
| 47. | Dr. M L N Madhu Mohan | Physics | 26 |
| 48. | Dr. Habibuddin Shaik | Physics | 16 |
| 49. | Dr. K.V. Madhuri | Physics | 15 |
| 50. | Dr. B. Nageswar Rao | Physics | 13 |
| 51. | Dr. Mithun Rudrapal | Pharmacy | 33 |

## 2025 October Publications

| S.NO | AUTHORS | Department | TITLE OF PUBLICATION | SOURCE TITLE | IMPACT FACTOR | ARTICLE TYPE |
|---|---|---|---|---|---|---|
| 1 | Ahmed Alkhayyat., Jinka Sreedhar., Udayabhaskar Pattap., Murla Bhumi Reddy., Suresh Dara., Krishna Kant Agrawal., Jabir Ali., Prakash Kumar | ECE | Fuzzy RNN Model-Based Classification of Alzheimer's Disease and Dementia Using Brain EEG Signals | IEEE Transactions on Consumer Electronics | 10.9 | SCIE |
| 2 | Murthy Chavali., Meenakshi Singh., Atul Srivastava., Manoj Kumar Enamala., Chandrasekhar Kuppam., Rosa Anna Nastro., Sahil Kapoor., Ritendra Mishra | Biotechnology | Unlocking the potential of nanocellulose in biomedical innovations: A sustainable marvel | Science of the Total Environment | 8.2 | SCIE |
| 3 | Yu-Min Tzou., Shih-Hao Jien., Kuan-Ming Tseng., Venkatesan., Yi-Cheng Hsieh., Jerry Hsieh., Selly Maisyarah., Ahmed M M M., Liang-Ching Hsu | Chemistry | Magnetically recoverable iron-modified biochar for high-efficiency phosphate separation: Process optimization and DFT-validated mechanisms | Separation and Purification Technology | 8.1 | SCIE |
| 4 | Mrs. Indira Mikkili., Sudarsini Borugadda., Ajay Kanaparthy | Biotechnology | Trends in cyanobacterial Phycobiliproteins - structure, function, and applications: A review | International Journal of Biological Macromolecules | 7.7 | SCIE |
| 5 | Azra Parveen., Kartikey Verma., Shraddha Agrawal., Nadeem Firoz., Aditya Tiwari., Jitendra Bahadur | ECE | Impact of Mg doping on optical, dielectric and antibacterial properties with in vitro analysis of CuAlO2 spherical-flower nanostructures: Modeling and experimental results | Journal of Alloys and Compounds | 5.8 | SCIE |

# Patents Filled in October & November 2025 by Departments


| S.No | Revised Title | Inventors | Department | Journal |
|---|---|---|---|---|
| 1 | Polynomial Secret Sharing Technique with Malicious User Detection and Compact Share Generation | 1. Dr. Guttikonda Prashanti<br>2. Dr. Mundukur Nirupama Bhat | Department of Advanced Computer Science and Engineering (both are same) | Indian Patent Journal |
| 2 | Inverter based Power sharing between Electric Vehicle and Household Appliances | 1.Dr. P.V. Subba Rao<br>2. Ch. Angel Mani<br>3. M. Bhuvaneswari | Department of Electrical and Electronics Engineering(all are same) | Indian Patent Journal |
| 3 | Design And Development of Communication Link for Collaborative Multi Uav System | 1.Ms. Bommaganti. Keerthana<br>2.P.V.L.N Satyadev<br>3.Dr. N. Usha Rani | Department of Electronics and Communication Engineering (all are same) | Indian Patent Journal |
| 4 | Reconfigurable Cylindrical Dielectric Resonator Using Ferroelectric Barium Titanate for Microwave Applications | 1.Dr. Arka Bhattacharyya<br>2. Mr. Solomon Godwin Babu N.D<br>3. Dr. T. Subbaiah | 1.Department of ECE<br>2,3, Department of Chemical Engineering | Indian Patent Journal |
| 5 | Design and Development of First Person View Drone Using Virtual Reality Technology | 1.Dr. Usha Rani. Nelakuditi<br>2.Mr. Shaik Althaf | Department of Electronics and Communication Engineering (all are same) | Indian Patent Journal |
| 6 | Portable Field Detection and Monitoring Kit for Chlorpyrifos Biodegradation | 1. Mr. Ampasani Chennaiah<br>2.Dr. Kuppam Chandrasekhar<br>3.Dr. Alugunulla Venkata Narayana<br>4.Dr. Ambati Ranga Rao | Department of Biotechnology (all are same) | Indian Patent Journal |
| 7 | A Hybrid Deep Learning Approach for Grading of Diabetic Retinopathy Severity Level using Deep Feature Representations | 1.Dr. B. Suvarna<br>2.Dr. Sivadi Balakrishna<br>3.Dr. Jhansi Lakshmi. P<br>4.Ms. G. Parimala | 1,3,4.Department of CSE<br>2.Department of ACSE | Indian Patent Journal |
| 8 | Real-Time Hybrid Object Detection and Anomaly Alert System | 1.Dr. Jhansi Lakshmi, P<br>2.Dr. Bharath Kumar, N<br>3.Dr. B. Suvarna 4. Ms. G. Parimala | 1,3,4.Department of CSE<br>2.Department of ACSE | Indian Patent Journal |
| 9 | A Method for Automatic Conversion of Music Sheets to MIDI Format with Spectrogram-Based Analysis for Multi-Instrument and Multi-Genre Compositions | 1.Ms. Parimala Garnepudi<br>2.Dr. D. Yakobu<br>3.Dr. B. Suvarna<br>4.Dr. Jhansi Lakshmi. P | Department of CSE (all are same) | Indian Patent Journal |
| 10 | Robust Skin Lesion Classification System Using Dual-Branch CNN with Adaptive Feature Fusion and Attention Enhancement | 1.Maridu Bhargavi<br>2.Dr. Sivadi Balakrishna<br>3.Dr R Renugadevi<br>4.Syed Shareefunnisa | 1,3,4.Department of CSE<br>2.Department of ACSE | Indian Patent Journal |
| 11 | Safe Home:A Real-Time Fire and Smoke Detection System Using IoT and Sensor Networks | 1.Dr. D. Yakobu<br>2.Mr. Venkata Rajulu Pilli<br>3.Dr. Sivadi Balakrishna | 1,2.Department of CSE<br>3.Department of ACSE | Indian Patent Journal |

# Intellectual Achievements

| S.No | Revised Title | Inventors | Department | Journal |
|---|---|---|---|---|
| 12 | Applying Ensemble Intelligence to Predict Customer Attrition in the Telecom Sector | 1.Dr. R.Renugadevi<br>2.Mrs. M Bhargavi<br>3.Syed Shareefunnisa<br>4.J.Vinoj | Department of CSE (all are same) | Indian Patent Journal |
| 13 | A Novel Smart AI System for Automated Lung Nodule Detection in CT Scan Images | 1.Dr. Sivadi Balakrishna<br>2.Dr. B. Suvarna<br>3.Mrs. M. Bhargavi<br>4.Dr. D. Yakobu | 1..Department of ACSE<br>2,3,4 Department of CSE | Indian Patent Journal |
| 14 | Real-Time Model Predictive Control System for Congestion Management in Smart Grids | 1.Dr. K Chakravarthi<br>2.Dr. Bharath Kumar. N | Deparment of EEE(both are same) | Indian Patent Journal |
| 15 | Deep Fake Face Detection using Efficient Convolutional Neural Networks | 1.Dr. M. Umadevi<br>2.Dr. T. Lakshmi Praveena<br>3.Dr. Kanchi Lohitha Lakshmi<br>4.Dr. N. Bharath Kumar | 1.Department of CSE<br>2.Department of CSE(AI&ML)<br>3.Department of Artificial Intelligence and Data Science<br>4.Department of EEE | Indian Patent Journal |
| 16 | Threshold Cryptography and Biometric Access Control for Enhanced Data Confidentiality in AWS S3 | 1. Dr. Guttikonda Prashanti<br>2. Dr. Mundukur Nirupama Bhat<br>3. Dr. Popuri Ashok Kumar | 1,2. Department of Advanced Computer Science and Engineering<br>3. Department of Chemical Engineering | Indian Patent Journal |
| 17 | Embedded Hybrid Digital Twin Architecture for Predictive Fault Diagnosis of PMSM Drive Systems | 1.Dr. N Bharath Kumar<br>2.Dr. P Jhansi Lakshmi<br>3.Dr. K Chakravarthi<br>4.Dr. M. Umadevi<br>5.Dr. A R Vijay Babu<br>6.Dr. P V S Sobhan | 1,3,5,6.Dept. of EEE,<br>2,4.Dept. of CSE | Indian Patent Journal |
| 18 | Interpretable Deep Learning Framework for Early Classification of Tomato and Grapevine Leaf Diseases | 1.Dr. A. Ranganadha Reddy 2.Ms. Geethika Ramaiah Edara | Department of Bioinformatics School of Biotechnology and Pharmaceutical Sciences(both are same) | Indian Patent Journal |
| 19 | Pneumonia detection using Deep Learning: A CNN Based Approach | 1.Dr. A. Ranganadha Reddy<br>2.Ms. Thota Sneha Sai Lakshmi<br>3.Mrs. Parvathi Devi Budda | 1,2.Department of Bioinformatics School of Biotechnology and Pharmaceutical Sciences<br>3.Department of Electrical and Electronics Engineering | Indian Patent Journal |
| 20 | Development of Nusselt Correlation for Bauxite Ore Particle-Based Waste Heat Recovery from Industry Flue Gases | 1. Dr. Popuri Ashok Kumar<br>2. Dr. Pramod Kaki | Department of Chemical Engineering(all are same) | Indian Patent Journal |
| 21 | A Simple and Rapid Method for DNA Isolation from Shrimps Using a Single-Tube Extraction Buffer in a Single Step | 1.M.V.S.S.Pavan Kumar<br>2. Dr. A. Ranganadha Reddy | Department of Biotechnology School of Biotechnology and Pharmaceutical Sciences(both are same) | Indian Patent Journal |
| 22 | Design of a Low Power and Area Efficient Ternary SRAM using CNTFET | 1. Dr. V. Aswini<br>2. Dr. P. Vijaya Lakshmi | Department of ECE (both are same) | Indian Patent Journal |
| 23 | Stable Low Power SRAM Memory for Multi-Core Processing Elements | 1.Dr. P. Vijaya Lakshmi<br>2. Dr. V. Aswini | Department of ECE (both are same) | Indian Patent Journal |
| 24 | Evaluation of Potato Peel Biomaterial for Removal of Cadmium From Aqueous Solution | Dr.P.Bangaraiah | Department of Chemical Engineering | Indian Patent Journal |
| 25 | Preparation of bioethanol from rotten tomatoes (Solanum lycopersicum) | 1.Dr. Sumalatha Boddu<br>2.Bhanu Prasad Marri<br>3.Jagadishwar Rao Gudipudi | Department of Chemical Engineering | Indian Patent Journal |

# Ph.D & A Glance

## Award of Ph.D. degrees in the months of Aug - Nov, 2025 (3-8-2025 to 29-11-2025)

| S.No | Scholar Name | Reg.No | Department | Title | Supervisor Name |
|---|---|---|---|---|---|
| 1 | P. Vidya | 211FG32002 | Mathematics | A Study of the Dagum Model for the Family of Exponential Distributions. | Dr. S. Parthiban, Associate Professor |
| 2 | K. Praveen Kumar | 131PG04202 | CSE | Design and Development of Transformer-Based Deep Learning Models for Emotion Recognition in English Poetry. | Dr. S. V. Phani Kumar, Officiating Professor |
| 3 | Shajeeya Amren Shaik | 161FG31201 | Chemistry | Exploring Adsorption Processes: from Aluminosilicate-Based Nanoclays for Cationic Dye Removal to Egg-Shell-Derived Adsorbent for Drug Adsorption. | Dr. Anandarup Goswami, Associate Professor |
| 4 | G. Ramyasree | 211FG05002 | ECE | Design and analysis of compact MIMO Patch antennas with High gain and bandwidth for 5G FR1&FR2 applications. | Dr. N. Suman, Assistant Professor |
| 5 | Y. Veera Reddy | 151PG31008 | Chemistry | Design, Synthesis and Anticancer Evaluation of Various Indole-Connected Thiazoles, Pyrimidine Incorporated Thiadiazoles and Oxazole Fused Pyridine Derivatives. | Dr. V. Anuradha, Former Professor |
| 6 | K. Pavan Kumar Reddy | 181PG08002 | Mech | Analysis of Phase Change Materials in Reinforced Concrete Slab-Applications. | Dr. B. Nageswara Rao, Professor |
| 7 | M. Venkatarao | 211PG31014 | Chemistry | Isolation, Characterization, and Quantification of Impurities in Isosorbide Dinitrate, Hydralazine, and Mexiletine Drug Substances. | Dr. C. Gangu Naidu, Associate Professor |
| 8 | G. Vinaya Chandu Vidya Sagar | 181PG01204 | Bio-Tech | Development And Validation of Molecular and Point of Care Diagnostics for Sars-Cov-2 (Covid-19). | Dr. T. C. Venkateswarlu, Professor |
| 9 | Y. S. Manjula | 191PG33201 | English | Echoes Across Generations: A Journey into Intergenerational Consciousness in the Literary Diversity of Dai, Kire, and Kalita from the North-Eastern States. | Dr. G. Mohanacharyulu, Professor |
| 10 | N. Hareesh Reddy | 191PG01006 | Bio-Tech | Production and Purification of Yellow Fever Vaccine using Chick Embryo Fibroblast (CEF)Cells. | Dr. T. C. Venkateswarlu, Professor |
| 11 | S. Vidyulatha | 191FG04001 | CSE | Automated Sarcasm Detection using Optimized Deep Learning Models. | Dr. D. Venkatesulu, Professor |
| 12 | G. Srinivas | 161PG06202 | EEE | Performance Analysis of Artificial Intelligent Based SVM Controller for an Inverter Fed Induction Motor Drive. | Dr. G. Durga Sukumar, Professor |
| 13 | G. Ganga Prasad | 181FG05202 | ECE | Adaptive Routing Techniques for Mobile Ad Hoc Networks with Unstable Links. | Dr. Seetharamanjaneyulu, Professor |
| 14 | V. Guruswamy | 181PG31201 | Chemistry | Design, Synthesis and Structural Elucidation of Novel Impurities in Selected Active Pharmaceutical Ingredients of Baricitinib, Venetoclax and Erlotinib. | Dr. Anandarup Goswami, Associate Professor |

# Faculty Research

1. Total No. of Ph.D. s awarded as on November 2025 - 304

| H-index | |
|---|---|
| Scopus | WoS |
| 72 | 56 |

2. Scopus Citations: 43825
3. No. of Scopus Publication from 01.01.2025 to 29.11.2025 2025: 735
4. No. of Funded Projects Submitted in the Month of November -25: 33
5. No. of Ph.D. Guideship's Approved in the month of November-25: 09
6. No. of Ph.D. Admissions (September Cycle): 69

| S.No | Nature of Assistantship | | | External PT |
|---|---|---|---|---|
| 1 | ERA | TRA | Internal PT | |
| 2 | 15 | 09 | 06 | 39 |

7. Faculty having Scopus H-index > 10: 51
8. No. of Papers Submitted for Article Processing Charges: 01

| S.No | Author Name | Department | Designation | Title of the Research Paper | Journal Name | Amount |
|---|---|---|---|---|---|---|
| 1 | Dr.Deva Kumar Salluri | CSE | Associate Professor | A Synergistic Stacked Ensemble Deep Learning Model for Predicting Diabetic Retinopathy Severity | IEEE Access | 1,63,813/- |
| 2 | Mr.Maanas Sai Surya Chandra Atthuluri | CSE | Student | | | |
| 3 | Dr. S.V. Phani Kumar | CSE | Professor & HoD | | | |
| 4 | Dr.K.V.Krishna Kishore | CSE | Professor & Dean, SoCI | | | |

9. No. of faculty used CDF for Conferences, workshops – 23

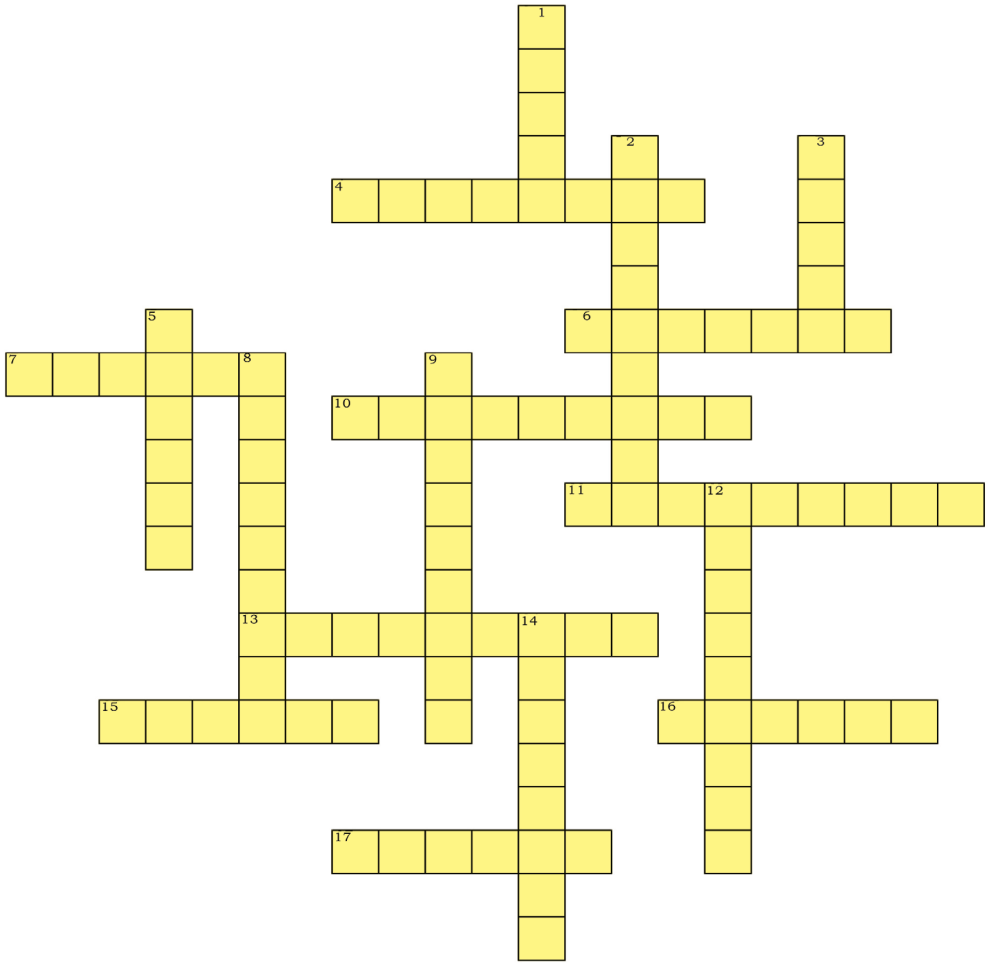
| S.No | Department | Name of the Faculty | Host Institute | Nature of the Event |
|---|---|---|---|---|
| 1 | ACSE | Ms. Saja Radha Rani | IIT Ropar | Conference |
| 2 | ACSE | Dr. D. S. Bupal Naik | NIT Goa | Conference |
| 3 | ACSE | Dr. P. M. Benson Mansingh | IIT Tirupati | Workshop |
| 4 | CSE | CH. Pushya | Kalinga Institute of Industrial Technology | Conference |
| 5 | ECE | Dr. Shaik. Jakeer Hussain | IIT Madras | Winter School Training |
| 6 | ECE | Dr.Lova Raju | IIT Tirupathi | Workshop |
| 7 | ECE | Dr.N.V.R Vikram | MNIT Bhopal | Conference |
| 8 | EEE | Dr. N. Bharath Kumar | IISc Bangalore | Workshop |
| 9 | EEE | Dr.K. Chakravarthi | IISc Bangalore | Workshop |
| 10 | CIVIL | Dr. Padakanti Rakesh | IIT Jammu | Conference |
| 11 | ME | Dr.B.Nageswara Rao | IIT Raipur | Conference |
| 12 | BME | Dr. K. Hima Bindu | Alliane University | Conference |
| 13 | Biotechnology | Dr.Anjani Devi | Siksha 'O' Anusandhan Deemed University | Conference |
| 14 | Biotechnology | Dr.N.S.Sampath Kumar | Siksha 'O' Anusandhan Deemed University | Conference |
| 15 | MBA | Dr. Saritha Satpathy | GITAM, Visakhapatnam | Conference |
| 16 | MBA | Dr. S. V. G. Apoorva | GITAM, Visakhapatnam | Conference |
| 17 | MBA | Dr. P. Lakshmi Narayanamma | GITAM, Visakhapatnam | Conference |
| 18 | MBA | Dr. Shaik Mahaboob | IIM Ahmedabad | Conference |
| 19 | MBA | Dr. B. Madhusudhan Rao | IIM Nagpur | Conference |
| 20 | MBA | Dr. B. Madhusudhan Rao | IIM Bombay | Workshop |
| 21 | MBA | Dr. Ghali Krishna Harshitha | IIM Shilong | Conference |
| 22 | Mathematics | Dr. Kamakhya Paul | IIT Bhilai | Conference |
| 23 | Physics | Mr. Y.V. Omprakash | MNIT Bhopal | Conference |

10. No. of requests for contingency grant received: 09 Amount Sanctioned: **1,37,194/-**

No. of research centers approved in the month of November-2025-01 : 1. Vignan's Nirula Institute of Technology and Science for Women

**by Office of The Dean, Research & Development**

# Space and Beyond



**Across**

4) Range of wavelengths used to analyze starlight
6) Force that attracts two bodies toward each other
7) A cloud of gas and dust where stars are born
10) Instrument used to observe distant objects in space
11) Object in orbit, natural or artificial
13) A person trained to travel and work in space
15) Rock from space that burns up entering Earth's atmosphere
16) A massive system of stars, gas, and dust bound by gravity
17) The universe viewed as a complete and orderly system

**Down**

1) Icy body that releases gas forming a glowing tail
2) Explosive death of a massive star
3) The path one body takes around another in space
5) Extremely bright and distant active galactic nucleus
8) Ancient device once used to observe celestial positions
9) Region with gravitational pull so strong that even light cannot escape
12) A planet outside our solar system
14) Rocky object orbiting the Sun, smaller than a planet

**ANSWERS**

**Across :** 4) SPECTRUM 6) GRAVITY 7) NEBULA 10) TELESCOPE 11) SATELLITE 13) ASTRONAUT 15) METEOR 16) GALAXY 17) COSMOS

**Down :** 1) COMET 2) SUPERNOVA 3) ORBIT 5) QUASAR 8) ASTROLABE 9) BLACKHOLE 12) EXOPLANET 14) ASTEROID

# Funology

## Knowledge Check

1. Which of the following is used to verify the identity of a user or system?
   A) Encryption B) Authentication
   C) Backup D) Compression
2. What type of malware locks files and demands payment to restore access?
   A) Worm B) Trojan
   C) Ransomware D) Spyware
3. Which protocol is used to securely transfer data over the internet?
   A) HTTP B) SMTP
   C) HTTPS D) FTP
4. A method of guessing passwords by trying many combinations is called:
   A) Packet sniffing B) Keylogging
   C) Brute force attack D) Social engineering
5. The strongest type of password typically contains:
   A) Only letters B) Words from a dictionary
   C) Letters, numbers, and symbols D) Repeated characters

**Answers:** 1. b) Authentication | 2. C) Ransomware | 3. C) HTTPS
4. C) Brute force attack | 5. C) Letters, numbers, and symbols

## Did you know?

**A teaspoon of material from a neutron star would weigh around 6 billion tons on Earth - roughly equal to the weight of the entire Mount Everest.**

*(Because matter inside a neutron star is incredibly dense - compressed atomic structure)*

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***"It always seems impossible until it's done."*** – *Nelson Mandela*

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## From the readers

*I as a reader want to share my appreciation and my gratitude beyond words with the great work that you have done in the editing and publishing of our college magazine every month. Your determination, accuracy shows the quality and the honour of the publication, really, need to be praised.*

*The magazine of each month is a mirror of your commitment and your editorial skill. The issues inspire and engage the readers of the whole campus as it is clear that every magazine is a result of the careful and thoughtful work and the attention to the detail.*

*They are excellent and a direct consequence of your nonstop efforts the students now have a wonderful platform to express their ideas, creativity, and perspectives.*

*On behalf of the students, I take the opportunity to thank you sincerely for what you have given to the college community. It drives to excellence many of us in our own domains and we are eager to seeing more issues with you as an editor.*

by
G. Tapaswi VNSL
III CSE

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|---|---|---|---|---|---|---|---|---|
| 9949983666 8885559373 | 9394244999 9553022550 | 8328666589 9949248118 | 9177727696 7989987921 | 7013097630 8639037995 | 9642992312 9966974514 | 8978735232 8919389686 | | |