VOICE of VIGNAN

SCIENCE | TECHNOLOGY | RESEARCH

Volume 01 | Issue 07 | July 2025

V-INSAT App Revolution

Creators not Consumers

From the Editorial Desk

"We want deeper sincerity of motive, a greater courage in speech, and earnestness in action."

— Sarojini Naidu

Days and months pass by, and each day at Vignan brings new beginnings. Students evolve, academic journeys begin, and with every sunrise and sunset, fresh wings take flight-students arrive with dreams in their eyes. As time moves on, those once-new wings grow stronger, soaring toward higher education, meaningful careers, and transformative internships. Time flows, but the spirit of Vignan lives on in every journey.

As we turn the page on another month, let's pause to reflect with pride on our progress and the milestones achieved-both as a university and through the aspirations and accomplishments of our students. Empowerment through purposeful learning is at the core of Vignan.

Whether it's pioneering research in cybersecurity and AI cryptography or innovative Faculty Development Programs in AR/VR and smart mobility, Vignan is redefining how knowledge takes root and flourishes. International internships-from drone research to South Korea-prove that learning at Vignan extends far beyond campus walls and into industries, labs, and even global borders.

Our partnership with Andhra Pradesh Fisheries University, for instance, is blossoming into real-world research, innovation, and student impact. Consultancy projects on antenna systems, the creation of V-INSAT by our own students, and robust faculty immersion programs all stand as examples of academia meeting industry with intent and purpose.Our students continue to shine-not just as learners, but as leaders and change makers. From winning accolades to raising awareness on sustainability and biodiversity to participating in educational tours and global events, our students consistently embody values-rooted excellence.

Despite a nationwide slowdown, Vignan's placement performance remains extraordinary. With 75% placement achieved, early drives for the Class of 2026 already underway, and offers from leading firms such as PwC, Cisco, Infosys, DarwinBox, and Amber, our students are demonstrating not just their industry readiness but also their resilience and ability to adapt.As we celebrate these milestones, let us look ahead with optimism and determination. At Vignan, innovation, excellence, and purpose will continue to guide our journey. Together-as learners, leaders, and trailblazers-we will shape a brighter, more impactful future.

Dr. M. Malakondaiah
Advisor, VFSTR

One Earth, One Health One Community

Celebrating International Yoga Day 2025

With serenity in the air and a spirit of unity in motion, Vignan University proudly joined the global celebration of International Yoga Day 2025 on the early morning of June 21st at 6:30 AM. Aligned with this year's resonant theme, "Yoga for One Earth, One Health," the event was more than just a campus gathering-it was a shared moment of mindfulness, wellness, and harmony with nature.

The celebration went beyond yoga as a simple physical exercise. It embraced the deeper meaning of yoga as a cultural heritage and a holistic practice that connects the mind, body, and soul. Through the session, the message was clear: true health begins with prevention and awareness, not just treatment. The practice of yoga offers a sustainable way to manage stress, enhance focus, and build emotional resilience-all of which are essential for students and faculty alike in today's fast-paced world.

One of the most heartwarming highlights of the event was a beautiful group performance by students on stage. With calm precision and graceful movement, they demonstrated various asanas (postures), reflecting strength, focus, and inner peace. Their discipline and composure were symbolic of yoga's ability to create balance-within individuals and among communities.

International Yoga Day 2025 at Vignan was not just a celebration-it was a reminder of the simple yet profound truth: when we align our inner world, we contribute to healing the outer world too.

As the rising sun cast a soft glow across the university grounds, participants-students, faculty, and staff-came together in silent unity, following guided breathing exercises and simple yoga flows. These sessions promoted not just physical flexibility, but also mental clarity and emotional grounding-a much-needed pause in our often hectic routines.

The entire session was conducted under the guidance of trained and experienced yoga instructors, who ensured that every movement was performed safely and correctly. Their presence helped even first-time participants feel confident and connected. The atmosphere throughout the event was peaceful yet powerful, reminding everyone that yoga is not just something we do on a mat-it is a lifestyle, a mindset, a way to live in sync with our environment and the world around us.

The event concluded with a quiet moment of reflection and a collective vow-to integrate the essence of yoga into daily life. Whether through a few minutes of mindful breathing, a morning stretch, or simply pausing to reflect, participants left with a renewed commitment to personal well-being and planetary harmony.

by
G. Priyanka
II Bioinformatics

THE CLASS OF 2025

The grand welcoming event of inauration of the new academic year from Dr. Lavu Rathaiah, Chairman of the Vignan Group, began by welcoming the class of 2025. In his address, he shared not only words of wisdom but a vision for what education truly means.

The Convocation Hall came alive with joy and anticipation on July 10th, 2025, as the incoming batch of B.Tech students-the Class of 2025-were officially welcomed into the Vignan family. The Inauguration Ceremony wasn't just a formal occasion; it was a heartfelt celebration of fresh beginnings, dreams waiting to unfold, and the exciting journey that lies ahead.

From the very start, the message was clear-this journey at Vignan goes far beyond textbooks and exams. It's about discovering yourself, embracing challenges, and evolving into bold thinkers, compassionate leaders, and innovative problem solvers.

One of the most moving moments of the event came from Dr. Lavu Rathaiah, Chairman of the Vignan Group. In his address, he shared not only words of wisdom but a vision for what education truly means. "The journey of discovery is not just about academics," he said. "It's about cultivating purpose, nurturing creativity, and developing a passion for lifelong learning." His message resonated with many, reminding students that success is not just measured in grades, but in the strength of character and the depth of personal growth.

To the students:

The road ahead may be demanding, but every challenge you face will carry a lesson. These next four years will be transformative-not only shaping your career, but shaping you. Learn boldly. Fail without fear. Rise stronger.

Take full advantage of every classroom discussion, lab session, group project, and even those quiet moments when self-doubt creeps in-because that's often where growth begins. Explore your passions. Don't be afraid to take smart risks. And always stay curious.

At Vignan, you're never alone. You're surrounded by mentors, peers, and a community that truly believes in your potential. Every faculty member, every fellow student, is part of a support system ready to help you dream bigger and reach farther.

So as you begin this new chapter, know that this isn't just the start of college-it's the launch of your legacy. A time to explore, to build, to lead, and to become the best version of yourself.

Welcome, Class of 2025.

The future isn't just waiting for you-it's yours to create!

by
Jahnavi Kamepalli
III CSE-CS

Flying High

International Drone Internship

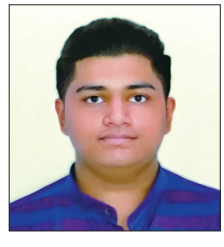
Vignan's Foundation for Science, Technology and Research (VFSTR) recently concluded a highly engaging and impactful Ten-Day International Drone Internship Program on July 11, 2025. Designed for international students, the internship marked an exciting step forward in global collaboration and hands-on learning in the fast-growing field of Unmanned Aerial Systems (UAS). Held from June 30 to July 11, the program offered a comprehensive blend of theoretical learning, practical exposure, and technological exploration in drone and UAV (Unmanned Aerial Vehicle) systems. Right from the basics to advanced applications, the internship was carefully curated to cater to students from diverse academic and cultural backgrounds.

Participants were introduced to the fundamentals of UAVs, learning about their structure, types, components, and applications in various sectors such as agriculture, logistics, surveillance, and disaster management. Sessions covered key areas such as the functional elements of UAS, the core components of UAVs, and emerging trends in drone innovation. A major highlight of the program was its hands-on approach. Students engaged in flight simulator training, sensor calibration, and real-time drone assembly and flying. Through interactive demonstrations and guided lab sessions, participants learned to build and operate their own UAV models. The curriculum also incorporated important theoretical modules including Drone Communication Protocols, Path Planning Algorithms, and the rules and safety regulations as per DGCA (Directorate General of Civil Aviation) standards, providing learners with a strong foundation in regulatory compliance and safe drone operations.

Vignan's University continues to stand at the forefront of futuristic education, creating learning spaces that merge cutting-edge technology with global exposure. The success of this drone internship is yet another testament to its commitment to innovation, hands-on learning, and empowering students to soar to new heights

Beyond the labs and simulators, students enjoyed real-world flying sessions, which brought their classroom learning to life. Under the mentorship of experienced faculty and drone specialists, they practiced essential flying techniques and troubleshooting strategies, gaining confidence in managing aerial devices in real-time environments.

What made this internship especially enriching was the cross-cultural participation. International students from multiple countries brought diverse perspectives, fostering a dynamic exchange of ideas and experiences. It wasn't just a technical program-it was a celebration of collaboration, curiosity, and innovation.



by
Dharmasastha
IV Biomedical Engg.

Technology *for* All

Vignan's University hosted the Second International Conference on Networks and Soft Computing, with 130+ research contributions. Key discussions focused on ethical AI, inclusive technology, and digital threats. The event highlighted emerging areas like agentic AI and neural networks, reinforcing Vignan's commitment to innovation and industry-academia collaboration.

Vignan's University recently organized the Second International Conference on Networks and Soft Computing, attracting more than 130 research contributions from both India and abroad. The event brought together scholars, researchers, and industry experts to discuss the latest developments in technology and its role in shaping a better society.

One of the key speakers, Prof. Salman Abdul Moiz from the University of Hyderabad, highlighted the importance of using technology in an ethical manner. He emphasized the need to ensure that technological advancements reach rural and underprivileged communities so that progress becomes inclusive and fair for all. Throughout the conference, several important topics were discussed, including the creation of AI systems that are free from bias and the responsible use of data. Participants explored how artificial intelligence is being used in sectors such as healthcare, finance, and education to improve lives. There were also serious discussions on growing digital threats like deepfakes and data manipulation, which pose risks to online safety and trust.

The conference also introduced advanced areas like Agentic AI, fuzzy logic, and neural networks, and how these technologies can support businesses, improve smart assistants, and create more intelligent education tools. These discussions helped participants understand how cutting-edge research can be applied in real-world situations.

This event reinforced Vignan's strong focus on innovation and its commitment to making a positive impact on society. It encouraged the idea that technology should be developed and used in a way that is responsible, inclusive, and sustainable. With valuable insights from TCS and AI industry leaders, the conference also helped bridge the gap between academic research and industry needs, opening up new opportunities for collaboration and growth.

by
T. Srivalli Katyayani
II CSE

WHEN We UNITE, CELEBRATE

Independence Day is far more than a date in history-it is a celebration of the human spirit, the triumph of unity, and the shared pride of a nation. On 9th July 2025, the Sangamam Seminar Hall at VFSTR came alive with colour, music, and heartfelt celebration as international students gathered to mark two important occasions: the 14th Independence Day of South Sudan and the belated 65th Independence Day of Madagascar. This wasn't just a ceremonial event; it was a tribute to the dreams, resilience, and identity of two nations, brought to life by their students through stories, art, and cultural pride.

An Afternoon of Connection and Celebration

The event began at 2:00 PM and carried its lively spirit well into the evening, concluding with a dinner that left everyone smiling. Our vibrant hosts, Tojo and Agnes, led the ceremony with charm, enthusiasm, and warm humour. Their effortless energy kept the atmosphere cheerful and engaging, making sure every part of the event felt personal and inclusive.

We were deeply honoured by the presence of our esteemed Chief Guest, Smt. Bala Devi Chandrashekar, a distinguished Bharatanatyam dancer, scholar, and cultural ambassador. Her powerful address drew from a rich tapestry of artistic wisdom, encouraging everyone to embrace culture as a source of strength and identity. Her words resonated with both heart and intellect, making the moment truly unforgettable.

Independence Day is not merely a date on the calendar but it is a celebration of the spirit of freedom, unity, and national pride. On 9th July 2025, students from all countries gathered at the Sangamam Seminar Hall to honor two such significant moments; the 14th Independence Day of South Sudan and the belated 65th Independence Day of Madagascar.

A Showcase of Stories and Traditions

The heart of the celebration came alive through powerful cultural presentations. Stunningly

designed PowerPoint slides and video documentaries transported the audience to the landscapes, traditions, and historical milestones of South Sudan and Madagascar. These glimpses offered much more than facts-they provided a window into the hearts of the people and their homeland, making us all feel a little more connected to places some of us had never seen.

The stage then transformed into a symphony of sound and soul. Musical performances by Chol (South Sudan), Tojo (Madagascar), Chiko and Shame (Zimbabwe) filled the room with rhythm and emotion. Each performance drew cheers, claps, and moments of deep appreciation from the crowd. A moving poem recited by James and Kuol from South Sudan echoed with emotion, reminding us of the beauty and strength that poetry brings to the human experience.

Dance, Emotion, and Cultural Unity

As the evening progressed, the atmosphere grew even more magical. Traditional dances from South Sudan, Sudan, Madagascar, Togo, Nepal, Zimbabwe, and Syria were performed with vibrant music and heartfelt passion. It felt as if the walls of the hall dissolved, and we were taken on a whirlwind tour across nations, celebrating culture through movement and melody. The joy was infectious, and the pride was palpable.

Memories, Mentorship, and a Message of Hope

Before the night ended, a group photograph was taken-capturing not just smiles, but memories that will live on in hearts. Afterward, the students from South Sudan and Madagascar had a special interaction with Col. Prof. P. Nagabhushan, whose kind words and wisdom left a lasting impression. He congratulated the students warmly and offered thoughtful advice about leadership, purpose, and contributing to the future of their homelands. His message was both motivating and deeply personal, touching every listener with sincerity.

A Fitting Close

The evening concluded with a grand dinner, where students, faculty, and guests shared food, laughter, and heartfelt conversations. It was more than just a meal-it was a celebration of togetherness, a reminder that bonds formed through shared celebration can last a lifetime.

Final Thoughts

This celebration of the Independence Days of South Sudan and Madagascar was more than a festive occasion-it was a testament to diversity, unity, and mutual respect. It reminded us that while we may come from different parts of the world, our hopes, stories, and aspirations often echo the same emotions.

A heartfelt thank you to Prof. Sharada Allamneni, Dr. Howji, and the entire organizing committee for making this beautiful event possible. Their dedication brought together cultures, hearts, and voices in an unforgettable tribute to freedom and friendship.

May we continue to honour such diversity, and may the spirit of these celebrations guide us toward a more inclusive and inspired future.

by
Rafaralahisoa
Tojo Lalaina
III EEE

Turnitin with AI Workshop Empowers VFSTR Faculty on Academic Integrity

by
Srinikhi - III CSE

Turnitin's AI-powered tools are designed to promote academic integrity and enhance research quality. The workshop sessions focused on features such as plagiarism detection, AI-based text analysis, and writing feedback. Faculty members appreciated the hands-on approach and found the training highly relevant in today's AI-driven academic landscape.

On July 8, 2025, VFSTR hosted a workshop titled "Turnitin with AI" exclusively for faculty members at the Sangamam Seminar Hall. Organized by the NTR Vignan Library in collaboration with the Offices of the Dean–Teaching & Development (TD), Faculty and Staff Development (FSD), and Research & Development (R&D), the event aimed to enhance awareness and usage of Turnitin's AI-powered tools in academic and research contexts.

The workshop was conducted in two sessions, from 10:30 AM to 12:00 PM and 1:30 PM to 3:00 PM, to ensure broader participation. Mr. Gautham Raval led the sessions as the expert trainer, providing comprehensive insights into Turnitin's features, including AI-based text analysis, plagiarism detection, and writing feedback tools. Faculty were guided on how to integrate these tools to uphold academic integrity and improve research quality. Mrs. Santhoshi Cheemalapati coordinated the event seamlessly, ensuring a smooth experience for all participants. The workshop was met with positive feedback, with faculty members appreciating the hands-on learning and its relevance in today's AI-driven academic environment. Overall, the initiative marked a progressive step towards responsible academic practices at VFSTR.

Immersive Future

AR/VR Workshop at IIT Kharagpur

Laying the Foundation for Immersive Learning and Industry 4.0

In a significant step toward transforming education and research through immersive technology, IIT Kharagpur hosted a six-day AR/VR workshop from June 16 to 21, 2025, exclusively for ten faculty members from VFSTR (Vignan's Foundation for Science, Technology & Research), Andhra Pradesh. Organized by the Centre for Teaching Learning and Virtual Skilling, the workshop aimed to provide hands-on training in Augmented and Virtual Reality, with a focus on practical applications in teaching, research, and industry.

Participants were introduced to both the fundamentals and advanced techniques of AR and VR. Using tools like Unity 3D, they learned how to create interactive applications covering everything from environment design and animation to user input through C# scripting. AR development was explored using the Vuforia SDK, enabling the creation of both marker-based and marker-less experiences with GPS and camera integration. For VR, they worked with OpenXR to build cross-platform apps with gesture-based controls.

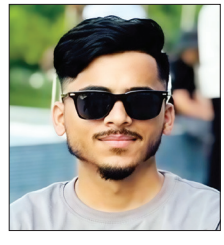
What made the experience even more immersive was the opportunity to work directly with high-end devices like the HTC Vive Pro 2, Meta Quest 3, and the Kat Walk Omnidirectional Treadmill, giving participants a true sense of movement and interaction in virtual space. Faculty members deployed their own apps on these devices, building simulations that reflected real-world scenarios.

The collaboration with IIT Kharagpur proves how premier institutions can come together to build capacity, share knowledge, and shape the future of education. With vision, infrastructure, and innovation, VFSTR is on track to become a national leader in immersive technology education- ensuring that students not only keep pace with the digital world but help shape it.

A key highlight was the project-based learning segment, where teams developed prototypes ranging from AR-enabled classroom tools and campus navigation aids to VR simulations for industrial and medical training. These projects brought the technology to life and demonstrated its potential in everyday learning and professional contexts.

The workshop also offered insight into how AR and VR are already transforming sectors like education, healthcare, and smart manufacturing with examples like virtual labs, AR textbooks, surgical training, and digital twins for industry.

Faculty walked away with not just technical knowledge, but a renewed vision for the future. There was strong support for establishing a dedicated AR/VR lab at VFSTR, integrating Blender for 3D design, and developing student-led projects and research in this space. The experience was a powerful step toward bringing immersive technologies into our classrooms, labs, and beyond.



by
Mukesh Pandey
II CSE

Faculty Orientation Programme

The Faculty Orientation Programme ensures that every new faculty member begins their journey at VFSTR with a focus on the adoption of Outcome-Based Education (OBE) and Universal Design for Learning (UDL) approaches that aims to make education more meaningful, inclusive, and impactful for students

The Faculty Orientation Programme at VFSTR is thoughtfully designed to help newly joined faculty members transition smoothly into the academic environment of the university. Understanding that each faculty member brings with them a diverse background-some with years of teaching experience and others with strong industry exposure-the orientation acts as a bridge between their prior experiences and VFSTR's unique academic culture.

The program serves as a comprehensive introduction to the systems, values, and philosophies that form the core of the university. Faculty are guided through the academic regulations, evaluation systems, and course outcome frameworks that shape the teaching-learning process at VFSTR. This ensures that everyone, regardless of where they come from, starts on the same page with a clear sense of direction and shared purpose. One of the key areas of focus in the orientation is the adoption of Outcome-Based Education (OBE) and Universal Design for Learning (UDL). These approaches aim to make education more meaningful, inclusive, and impactful for students. Faculty members are trained in implementing these methods in their classrooms, encouraging a more student-centric, goal-oriented approach to teaching.

In addition, faculty are familiarized with the university's research ecosystem, including the infrastructure available for academic research, ongoing interdisciplinary projects, and avenues for publication and funding. The importance of the Internal Quality Assurance Cell (IQAC) is also discussed, highlighting its role in maintaining academic standards and fostering continuous improvement.

The orientation emphasizes the importance of industry-academia collaboration, providing insights into how VFSTR works with external organizations to bring real-world relevance to academic programs. Faculty are encouraged to contribute actively to these collaborations, whether through student projects, research consultancy, or internships.

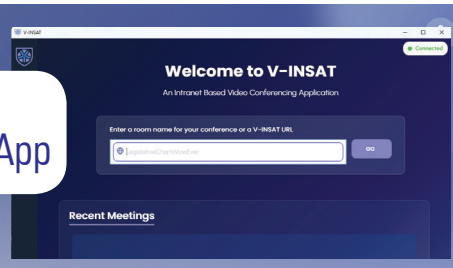
A dedicated session is also held to explore library resources and digital learning tools, equipping faculty with access to a wide range of materials that can enhance their teaching and personal academic growth. These sessions are designed to empower faculty to make the most of the support systems available on campus.

To instill a sense of shared responsibility and ethical grounding, a special day is devoted to Universal Human Values (UHV). These interactive sessions aim to align faculty values with VFSTR's broader vision of holistic education-one that nurtures not only intellect but also empathy, integrity, and social responsibility.

by K. Trisha Sri
II CSE

V-INSAT

Students-Made Video Conferencing App



In today's fast-paced academic world, having the right tools for seamless communication is just as crucial as having a good syllabus. With this in mind, a group of final-year students from our university took on an ambitious challenge-to create a custom-made video conferencing platform that would suit the specific needs of our academic community. The result? V-INSAT-a secure, flexible, and fully self-hosted video conferencing system designed, developed, and deployed entirely by students. Today, it is actively being used across departments for meetings, virtual classes, and collaborative sessions.

The journey of V-INSAT began with a simple but pressing observation. As the university increasingly relied on digital platforms for teaching and administration, existing video conferencing tools started to reveal their limitations. Many lacked flexibility, often posed data privacy concerns, or failed to adapt to our academic workflows. There was a clear need for a platform that offered more control-something that was secure, dependable, and most importantly, designed with our institution in mind.

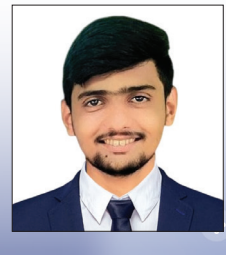
> V-INSAT is more than just a tool-it's a powerful reminder of what student innovation can achieve when supported and encouraged. It's a product of technical talent, institutional trust, and a strong vision as it stands as an example for every student-that real change is possible when you build with purpose, for your own community.

V-INSAT was built with those exact priorities. It allows for private, well-moderated virtual sessions with features like host controls, screen sharing, session recordings, and user management-all hosted on the university's own servers. This means complete data ownership and zero dependence on external platforms. Whether it's an online viva, a confidential academic meeting, or a lecture for hundreds of students-V-INSAT is equipped to handle it smoothly.

Behind this impressive platform is a dedicated student team: Kotamraju Umesh Chandra, Yerikala Venkata Pranay Kumar, and Koppineedi Lokesh. Umesh and Pranay led the development efforts, bringing complementary skillsets to the table. While Pranay focused on the app interface and ensuring a smooth experience across both desktop and mobile, Umesh handled the backend architecture, server deployment, and real-time integration work. Together, they built a platform from scratch-one that not only works but works exceptionally well under the practical demands of university life.

Creating V-INSAT wasn't a rushed process. The team spent weeks researching technologies and testing open-source platforms to find a strong foundation. They finally chose a scalable, flexible framework which allowed them to customise every detail-from how users log in to how meetings are moderated. It was clear that this wasn't just another coding project-it was a solution built out of genuine need, and tailored to our unique ecosystem.

Once the platform was internally tested and met with enthusiastic feedback from faculty and administrators alike, it was officially rolled out for use across the university. The moment became even more special when the Chairman of Vignan's University personally recognised the team's effort, awarding ₹1,00,000 to each developer-a truly proud moment not just for them, but for the entire student community.



by
K. Umesh Chandra
IV CSE-CS

From Campus to Amazon

The Inspiring Journey *of*

Likhitha Chuvya G

SUCCESS STORY

It's not every day that dreams turn into reality-but for Likhitha Chuvya G, a final-year student from the Computer Science Business Systems (CSBS) program at Vignan's Foundation for Science, Technology and Research, this dream has taken flight in the most remarkable way.

Hailing from Tuni, Kakinada district in Andhra Pradesh, Likhitha's journey is one of quiet determination, resilience, and purpose. The daughter of Mr. Prasad G, a bike mechanic, and Mrs. Rama Lakshmi G, she has always drawn strength from her humble roots. Her elder sister, Harshitha G, works as a customer executive at 24/7.ai, and their family has been a pillar of support in every step of Likhitha's academic and professional journey.

Likhitha has consistently stood out with her academic excellence-scoring 10 CGPA in Class 10, 981/1000 in Intermediate, and maintaining an impressive 9.19 CGPA during her B.Tech. Despite entering Vignan through EAMCET Rank 29735, her sheer dedication and consistent efforts paved the way for bigger milestones.

One such milestone was her six-month internship at Amazon as a System Development Engineer Intern, a role that many dream of but few achieve. With hard work, curiosity, and the courage to push boundaries, she successfully converted her internship into a full-time offer-a testament to her growing potential. Among the defining moments of her internship was her participation in Amazon's global hackathon-an event that brings together some of the brightest minds from around the world. Competing against hundreds of ideas from across countries and domains, Likhitha's innovative solution earned her a spot in the top 60 out of 486 entries. This achievement not only brought her visibility within Amazon but also gave her a surge of confidence that reinforced her belief in her capabilities. It showed her that even as a student from a small town, her ideas could hold their own on a global platform

"Every challenge taught me something new," says Likhitha. "There were days I doubted myself, but I kept going. Amazon taught me the value of ownership, curiosity, and believing in your ideas." Likhitha credits her success to her professors, friends, and the supportive environment at Vignan University, which encouraged her to explore, innovate, and grow both technically and personally.

Now, as she steps into a full-time role at Amazon, Likhitha carries not just her technical skills but also a story of grit, grace, and grounded ambition. Her journey is a powerful reminder to every student at VFSTR-proof that no background is too modest, and no dream is too big.

by
Dr. D. Vijay Krishna
Dean, T&P

Learning Beyond Books

A Visit to Kumar Pumps and Motors

To bridge the gap between academic learning and industrial practice, Vignan University organized an insightful industrial visit to Kumar Pumps and Motors, located in Tenali that gave students a clearer perspective on career opportunities in the manufacturing sector and encouraged them to develop skills that are highly valued by industry

To bridge the gap between academic learning and industrial practice, Vignan University organized an insightful industrial visit to Kumar Pumps and Motors, located in Tenali. The primary objective was to give students hands-on exposure to the real-world process of pump and motor manufacturing-a vital aspect of mechanical and electrical engineering applications.

This visit proved to be more than just a field trip. It allowed students to witness firsthand how theoretical concepts from the classroom-such as fluid mechanics, thermodynamics, and electrical machines-are practically applied in industrial settings. It highlighted how precision, innovation, and efficiency are essential at every stage of production.

Pumps and motors form the backbone of many industries, including agriculture, construction, and public water supply. They ensure smooth and reliable operations, and any flaw in their design or function can lead to significant disruptions. At Kumar Pumps and Motors, students gained insight into how these devices are engineered to meet demanding industrial standards. Throughout the tour, students followed the step-by-step manufacturing process of both centrifugal and submersible pumps. The journey began with the design phase, where engineers drafted detailed technical blueprints. This was followed by the machining process, where raw materials were shaped using precision tools into specific components. The next stage involved assembly, during which each part was meticulously fitted and aligned.

Once the pumps and motors were assembled, they were subjected to thorough quality testing to ensure performance and durability. The factory's use of modern equipment and automation demonstrated how innovation drives efficiency and consistency in production.

One of the most valuable takeaways for students was the emphasis on quality control at every stage of the process. From raw material selection to the final product, every unit underwent careful inspection. Students could see how even the smallest defect could impact performance, reinforcing the importance of precision and accountability in engineering.

The visit was not only technically enriching but also inspiring. It gave students a clearer perspective on career opportunities in the manufacturing sector and encouraged them to develop skills that are highly valued by industry-problem-solving, attention to detail, and a mindset of continuous improvement.

by
A. Rishitha
III CSE

Publications - High Impact Factor Journals in July 2025

S.No	Name of the student	Reg.No	Year/Branch	Conference	Institution conducting conference	Title
1	Mr. Raghavendra Sai Boddu	211FA04492	IV/CSE	2025 International Conference on Intelligent Systems and Computational Networks (ICISCN)	Lingaraj Appa Engineering College	An Investigative Comparison of Various Deep Learning Models for Driver Drowsiness Detection
2	Mr. Chandu Boppana	211FA04509	IV/CSE	2026 International Conference on Intelligent Systems and Computational Networks (ICISCN)	Lingaraj Appa Engineering College	comparative study of different pre trained deep learning models for footwear classification
3	Mr. Kurapati Venkata Seetha Ramanjaneyulu	211FA04409	IV/CSE	2027 International Conference on Intelligent Systems and Computational Networks (ICISCN)	Lingaraj Appa Engineering College	An experimental study on prediction of lung cancer from CT scan images
4	Ms. Chirumamilla Sneha	211FA04157	IV/CSE	ICCCIT - 2024	IPS Academy Institute of Engineering & Science, Indore.	A Novel Deep Learning Model Based Lung Cancer Detection of Histopathological Images
5	Ms. K.Thirumala Devi	211FA04471	IV/CSE	ICCCIT - 2025	IPS Academy Institute of Engineering & Science, Indore.	Natural disaster prediction using deep learning
6	Mr. Vangipurapu Veera Brahma Chaitanya	211FA04372	IV/CSE	ICCCIT - 2025	IPS Academy Institute of Engineering & Science, Indore.	Bi-GRU and Glove Based Aspect-Level Movie Recommendation
7	Mr. Andrew Blaze Pitta	211FA04255	IV/CSE	ICMCSI - 2025	Surya Engineering College, Tamilnadu	Footware classification using pretrained CNN models with deep neural network
8	Mr. Naganjaneya Bharath Reddy Ramana	211FA04246	IV/CSE	ICMACC - 24	VNRVJIET, Hyderabad	Enhancing predictive modelling of diamond prices using machine learning and meta-ensemble techniques
9	Mr. Ari Nikhil Sai	211FA04251	IV/CSE	ICMACC - 24	VNRVJIET, Hyderabad	Clusterboost: An Airbnb recommendation Engine Uisng metaclustering
10	Ms. Sowmya Puvvada	211FA04099	IV/CSE	ICSCNA - 24	Bharath Niketan Engineering College, Theni.	Revolutionising News genre classification with a novel hybrid sentiment analysis model
11	Ms. S.Sri Pujitha	211FA04289	IV/CSE	ICCCNT - 2024	IIT - Mandi	Enhanced speech emotion recognition through convolutional neural networks
12	Mr. Bobba Siva Sankar Reddy	211FA04657	IV/CSE	ICPCT - 2025	GL Bajaj Institute of Technology and Management, Greater Noida	Automated Kidney Anomaly Detection Using Deep Learning and Explainable AI Techniques
13	Mr. Kalangi Ravi kiran	211FA04043	IV/CSE	ICPCT - 2025	GL Bajaj Institute of Technology and Management, Greater Noida	A novel deep learning model for machine fault diagnosis
14	Ms. Modukuri Sai Vyshnavi	211FA04009	IV/CSE	2024 International Conference on Artificial Intelligence and Emerging Technology (Global AI Summit)	Bennett University, Greater Noida	Bi-LSTM Based Real-Time Human Activity Recognition From Smartphone Sensor Data
15	Mr. Thotakura Shanmukh Sudha Kiran	211FA04003	IV/CSE	2025 International Conference on Artificial Intelligence and Emerging Technology (Global AI Summit)	Bennett University, Greater Noida	Ant-BERT based optimized fake news detection
16	Ms. Alla Ammulu	221FA04094	IV/CSE	ICSCNA - 24	Bharath Niketan Engineering College, Theni.	Sentiment-Based insights into Amazon musical Instrument purchases
17	Ms. Kota Susmitha	221FA04392	III/CSE	ICSCNA - 24	Bharath Niketan Engineering College, Theni.	Leveraging XGBoost and clinical Attributes for Heart Disease Prediction
18	Ms. T. Venkata Nandini	211FA05010	IV-ECE	International Conference on Electroncis Computers & Artificial	University of Santiago de compostela	Low power high speed Inverter based differential input dynamic comparator

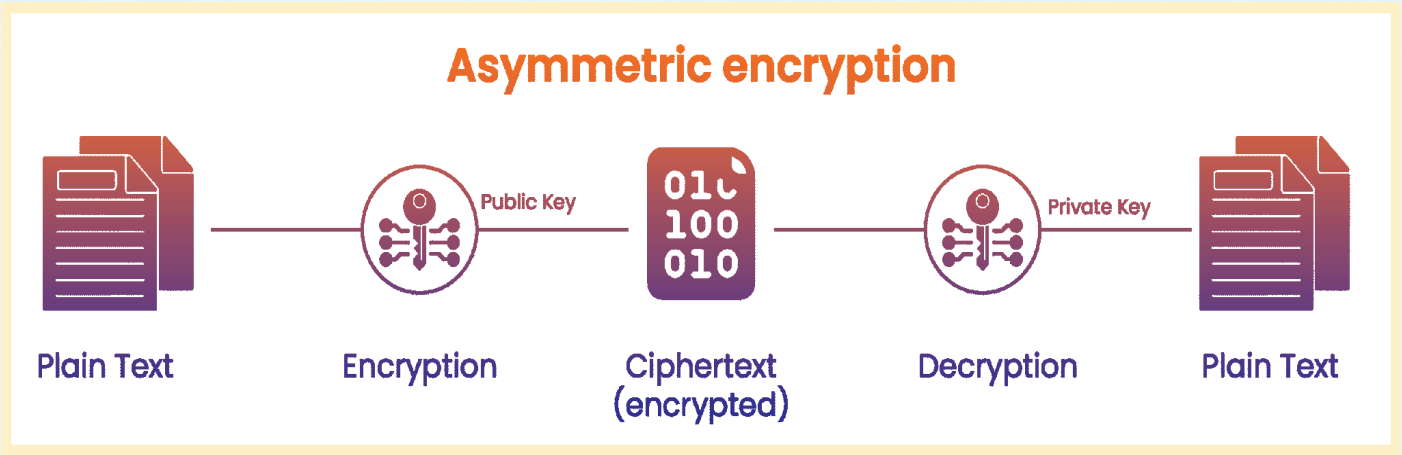
THE ROLE *of* CRYPTOGRAPHY *in* SECURING AI TRAINING DATA

By ensuring confidentiality, authenticity, and integrity, cryptography serves as a cornerstone of secure communication and digital trust in today's interconnected world. Its importance will only continue to grow as AI and digital technologies become more deeply integrated into our daily lives.

Artificial Intelligence (AI) has emerged as a crucial area of research in both academia and the IT industry in recent years. At the heart of AI are machine learning and deep learning, which serve as its foundational technologies. Research in artificial intelligence carries not only immense theoretical importance but also holds significant real-world applications. As AI continues to grow, protecting its underlying data becomes a key concern. With the increasing availability of large, integrated training datasets-many of which are open source-more researchers and companies are adopting the Parameter Server System architecture for training AI models. This system is typically made up of three core components such as the Data Server (Data) is where the training data is stored. Worker Nodes (WNs) are which handle the computational tasks of model training. And Parameter Server (Server Group) is responsible for managing and updating model parameters during training. However, the data stored on the data server is vulnerable to cyberattacks. Attackers may attempt to forge, alter, or completely destroy this training data. Such tampering not only compromises the performance of AI models but may also lead to incorrect or biased outcomes. As a result, data protection has become a top priority in AI research systems.

To address this issue, various authentication methods have been explored. Among these, cryptography stands out as one of the most reliable and secure methods to protect large datasets. Developed over centuries and refined for digital applications, cryptography helps preserve the integrity and confidentiality of sensitive information.

by Anitha jyothi Ramasani
Ph. D scholar, Mathematics

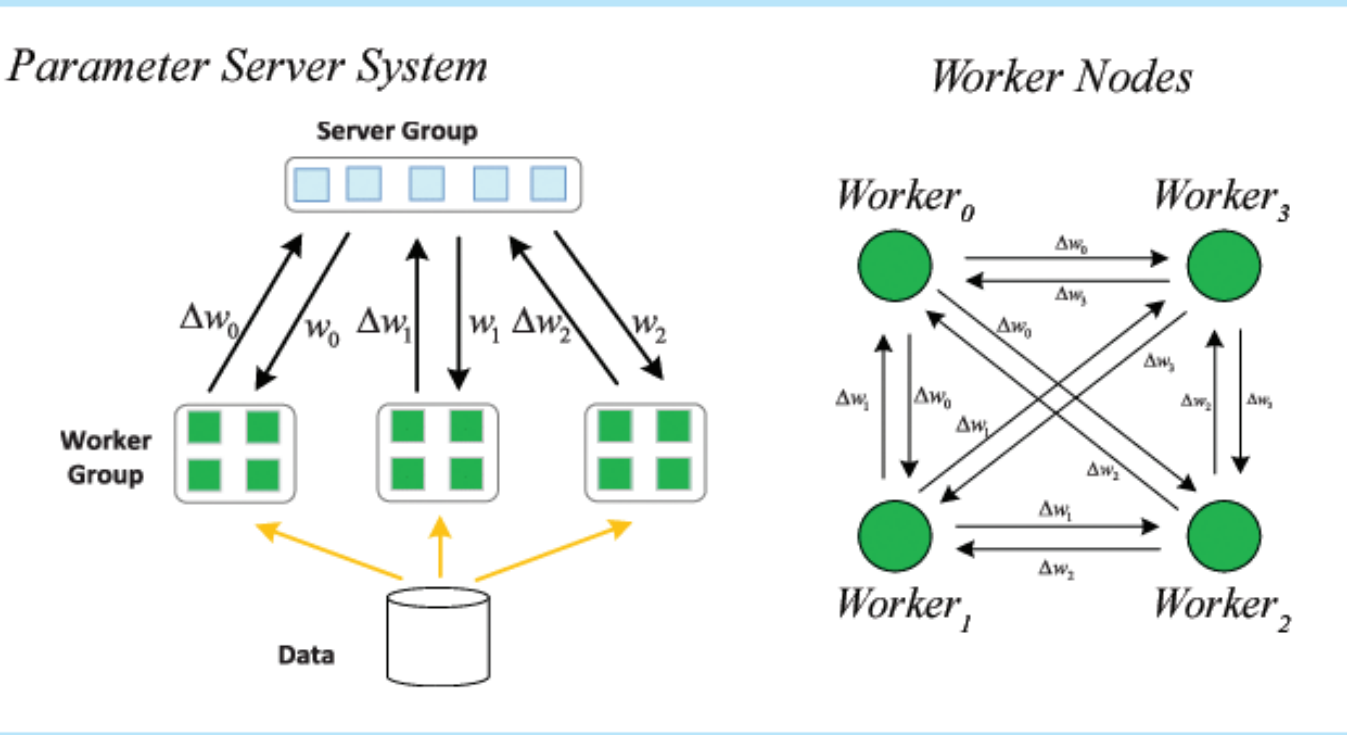


The word "cryptography" is derived from the Greek words "kriptos" meaning hidden, and "graphy" meaning writing. Therefore, cryptography refers to the practice of secure and hidden communication. The professionals who work in this field are known as cryptographers.

Cryptography typically ensures security through four main principles:

1. **Confidentiality** - Ensuring that information is accessible only to those authorized to have access.
2. **Data Integrity** - Protecting data from being altered or tampered with.
3. **Authentication** - Verifying the identity of users and systems.
4. **Non-repudiation** - Preventing entities from denying their actions, especially in digital communication.

Cryptographic techniques can be classified into three major types known as the Symmetric Key Cryptography - where the same key is used for both encryption and decryption. Then comes the Asymmetric Key Cryptography – which uses a pair of public and private keys; it plays a significant role in my study and is particularly useful for secure key exchange and digital signatures. And Finally, the Hash Functions – which convert input data into a fixed-size string of characters, often used for data integrity verification. Each of these types plays a unique role in different applications of data security, from securing personal data to enabling encrypted communication.



VFSTR Achieves AA Rating

SWAYAM-NPTEL

Local Chapter Performance : Jan-Apr 2025

We are pleased to announce that VFSTR has secureQd an 'AA' rating (Rank below 100) in the SWAYAM-NPTEL Local Chapter Performance for the Jan–Apr 2025 session. This recognition reflects our institution's consistent commitment to academic excellence and active participation in online learning.

Achievements at a Glance:

- 14 Gold, 261 Silver, 1252 Elite certificates
- 1640 Successfully Completed
- 51 Toppers, 18 NPTEL Stars
- Recognized as an LC Star for being ranked below 100 on eight occasions continuously.

NPTEL LC Details

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The NPTEL learning platform offers multifaceted benefits for both faculty and students:

For Faculty:

- Stay ahead with advanced courses that support research initiatives.
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- Faculty from non-computer science backgrounds can upskill in Computer Science, Data Science, IoT, Robotics, and AI.

For Students:

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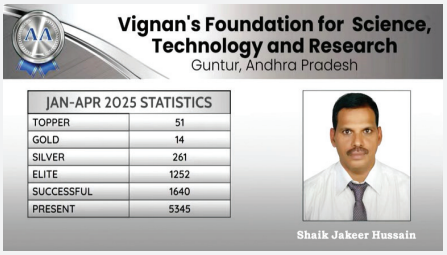

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We encourage all faculty and students to continue exploring and enrolling in NPTEL courses to further enhance their academic and professional journey.

Let's continue to strive for excellence.

by
Dr. Jakeer Hussain,
Dean, Planning and Monitoring, VFSTR

Note : The detailed statistics are available under the LC details category on the NPTEL website using LCID:1366.

Immersing Minds, Inspiring Futures

Vignan's Faculty Immersion Program Takes Flight

In an era where academia is rapidly evolving to keep pace with the demands of the industry, Vignan's Foundation for Science, Technology & Research has launched a bold and visionary initiative-the Faculty Immersion Program. This initiative, grounded in the ideals of experiential learning and deep institutional-industry collaboration, marks a new chapter in the university's journey toward global relevance and academic excellence.

This Faculty Immersion Program is not just a routine assignment-it's a transformative investment made by the university for individuals and professionals. Faculty is being deputed to industry, fully supported by the university with salaries, allowances, and without any teaching responsibilities. That itself reflects the level of commitment the institution has placed in your growth and future contribution.

A Vision Rooted in Purpose

The Hon'ble Chancellor, with a powerful call to action, requested faculty members to view this immersion not as a duty, but as an opportunity to rediscover their academic spirit. He emphasized that the best teachers are those who step outside the classroom to understand the world their students will eventually enter. Drawing from national education policy directives and global best practices, he reminded everyone that the university's goal is not just to teach, but to transform-students, institutions, and society at large.

In his words, "The purpose of this immersion is not just exposure-it's transformation. Learn with humility, return with purpose."

The Academic Depth

The Vice-Chancellor added a compelling academic dimension to the dialogue. Speaking with passion and clarity, he highlighted a rarely addressed but critical issue: the Gross Qualification Index (GQI) of Indian industry professionals. With data comparing ISRO and NASA, he revealed how India still lags in embracing advanced degrees like M.Tech and PhD in key scientific sectors.

He further elaborated on how immersion experiences would help faculty understand the importance of curriculum models like LTP (Lecture-Tutorial-Practical) and shift from one-way lectures to interactive, problem-based learning. His message was clear-only by understanding the industry's needs can faculty create a classroom that prepares students for real-world challenges.

Connecting Classrooms to Corporates

Dr. Malakondaiah, speaking from both academic and administrative experience, shed light on the practical and institutional value of this program. He stressed that the immersion will not only enrich the teaching-learning process but also open new avenues for doctoral research, collaborative projects, and industry-funded innovations. His advice was grounded and forward-looking: "Don't limit your immersion to observing-collaborate, contribute, and connect. Let industries know that Vignan is ready to lead the change."

Impacting Students and the University at Large

This program is poised to create a ripple effect across Vignan's ecosystem. When faculty return from these immersive experiences, they bring with them not only knowledge and networks but a renewed sense of purpose. The direct beneficiaries are the students, who will experience:

- Updated syllabi aligned with current industry practices.
- More engaging, real-world-based learning approaches.
- Opportunities for internships and research guided by industry experts.

Faculty were encouraged to explore partnerships with organizations like ISRO, DRDO, CSIR, and even international firms like Schneider Electric-creating bridges that benefit the university and for them in the long run. For the university, the benefits are equally powerful. Stronger collaborations, increased doctoral enrolments from industry professionals, enhanced reputation through Centres of Excellence, and a robust research culture are all outcomes that strengthen Vignan's standing as a progressive and research-driven institution.

27 Faculty members immersed in 23 top industries for six months

A Transformative Learning Experience
Faculty Immersion Program at
Ananth Technologies

As part of a faculty immersion program at a leading aerospace and defence company, participants gained hands-on experience designing and implementing Ka-band modulators using FPGA technology. The training covered the entire project lifecycle, enhancing their understanding of RF systems and digital signal processing. This practical exposure supports enriched teaching, curriculum development, and research, strengthening the university's industry-academia collaboration.

As part of an enriching Faculty Industry Immersion program, we Dr. P. Vijaya Lakshmi and Dr. V. Aswini had the privilege to undergo hands-on learning at Ananth Technologies, one of India's leading private aerospace and defence technology organizations. This training not only enhanced the understanding of cutting-edge electronic systems but also bridged the gap between academic concepts and real-world engineering practices.

The core focus of the training revolved around understanding the project development flow, delving into Ka-band modulator design, and exploring its FPGA implementation. At the outset, we were introduced to the complete project lifecycle from requirement analysis and block-level design to hardware-software co-design and system integration. This systematic approach helped to appreciate the disciplined engineering practices adopted in high-reliability domains like defence communications.

One of the most exciting components of the training was the Ka-band modulator, a crucial system used in satellite and defence communication. The Ka-band (26.5-40 GHz) offers high bandwidth, and designing modulators for this frequency band demands precision in RF front-end design and signal integrity management. The training taught how various components including Direct Digital Synthesizers (DDS), mixers, amplifiers, and filters come together to form a reliable modulation system. To solidify the theoretical aspects, we also worked on the FPGA-based implementation of the modulator's digital logic. We were exposed to HDL design, simulation using industry standard tools, and actual synthesis and testing on FPGA boards. Interfacing modules such as AD9850 for frequency generation and ADRF6755 for modulation were explored, enabling a comprehensive understanding of digital and RF co-design. This program not only updated the technical knowledge but also inspired ideas for academic research and curriculum enhancement. We are thankful to Ananth Technologies for this opportunity and for fostering a learning environment that supports innovation, precision, and industry-academia collaboration.

by
Dr. V. Aswini
Asst. Professor,
Dept. of ECE

by
Dr. P. Vijaya Lakshmi
Asst. Professor,
Dept. of ECE

Bridging Academia and Industry

A Project in Antenna Development

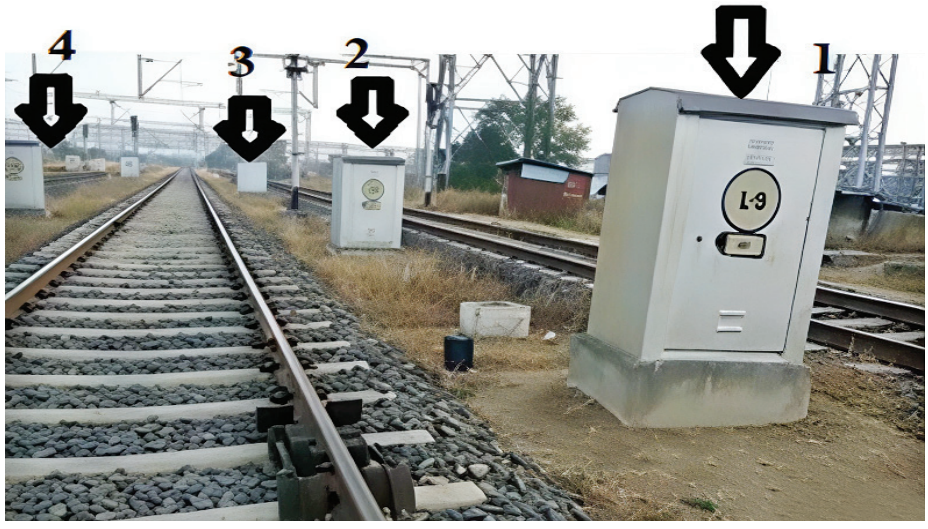
The scope this project that is under the guidance of Dr. Pachiyannan Muthusamy involves the assembly and testing of antenna units for wireless communication applications that would benefit for both academia and research aspects for the VFSTR students as the work was structured into two phases during the financial year and academic year of 2024–25.

In a commendable step toward strengthening industry-academia collaboration, the Department of Electronics and Communication Engineering at Vignan's Foundation for Science, Technology and Research (VFSTR) has successfully completed an important consultancy project for Efftronics Systems Pvt. Ltd. Titled "Antenna Assembly and Testing Services," the project focused on the development, integration, and evaluation of antenna systems intended for wireless communication applications. With the support of VFSTR's advanced infrastructure and research expertise, the project not only met but exceeded expectations-reinforcing the university's standing as a key player in applied electronics and industrial support.

In the first phase, the team undertook the assembly and testing of 700 antenna units, a process that was executed with precision and efficiency, generating a revenue of ₹4,62,000. The quality of delivery, adherence to specifications, and timely execution led to a strong professional rapport with the client, which in turn led to the extension of the contract into a second phase.

The second phase of the project scaled up significantly, involving the completion of 1000 additional antenna units. This phase generated ₹6,50,000 in revenue and was completed with the same level of technical rigor and commitment. Together, the two phases accounted for a total of 1700 assembled and tested units, contributing to a combined consultancy revenue of ₹11,12,000. More importantly, both phases were completed within the stipulated timelines and strictly adhered to the agreed-upon technical specifications, demonstrating VFSTR's reliability as a professional partner in the field of wireless systems engineering.

The developed antenna has been successfully deployed in a data locker unit for use in the Indian Railways



Antenna systems are a foundational component of modern communication technologies, including mobile networks, satellite communication, radar, and the rapidly growing Internet of Things (IoT). Projects like this one not only showcase the university's capabilities in this vital domain but also contribute to the nation's push toward indigenous technology development and manufacturing self-reliance. By executing high-quality consultancy work, VFSTR is positioning itself as a trusted academic partner for companies working on frontier technologies.

Looking ahead, the successful execution of this consultancy project opens doors for expanded collaborations with Efftronics and other industry stakeholders. The university is optimistic about the possibility of larger contracts or long-term partnerships that will continue to benefit both academia and industry. The efforts led by Dr. Pachiyannan and his team underline VFSTR's dedication to combining technical excellence with impactful societal contributions through innovation, service, and collaboration.

by
Dr. Pachiyannan Muthusamy
Associate Professor,
Dept. of ECE

by Srinikhi - III CSE

Vignan Achieves

OUTSTANDING PLACEMENT SUCCESS

Despite Nationwide Slowdown

As the 2025 placement season unfolds, engineering colleges across India are grappling with a noticeable slowdown. Across the country, top-tier institutes are reporting a dip in hiring numbers, delays in onboarding, and a sharp decline in high-paying job offers. Industry experts attribute this shift to a mix of global economic uncertainties, tightened hiring budgets, and a general atmosphere of caution among major tech companies and MNCs.

Yet, in the face of this challenge, Vignan's Foundation for Science, Technology & Research (VFSTR) has emerged as a glowing exception. The university has successfully secured an impressive 75% overall placement rate, a remarkable achievement given the prevailing market conditions. Students have landed roles across prestigious MNCs, fast-growing startups, and high-impact product-based firms, with salary packages ranging from ₹3 LPA to ₹44 LPA.

This year, product-based and core tech companies that recruited from Vignan include PwC, Cisco, BNP Paribas, DarwinBox, DeltaX, Juspay, Mivada, and SOTI. These firms are known for their rigorous selection processes and selectivity, underlining the strong technical capabilities of Vignan students.

Despite a nationwide placement slowdown, Vignan University has achieved a 75% placement rate with offers up to ₹44 LPA. Major recruiters include PwC, Cisco, TCS, and Infosys. The 2026 batch placement drives have already begun, reaffirming Vignan's leadership in employability and industry engagement.

In parallel, long-standing recruiting partners such as TCS, Infosys, Cognizant, HCL, Wipro, and Virtusa continued to place their trust in the university's talent pool. Among them, TCS led the drive with over 300 offers, followed closely by Infosys with 200, HCL with 125, and Cognizant with 75. These large-scale recruitments reflect Vignan's robust academic foundation, industry-readiness programs, and the institution's long-standing relationships with leading employers. A particularly encouraging trend this year is the early initiation of placements for the 2026 graduating batch-a move that sets Vignan apart. Even before their final year has officially begun, students have already participated in top-tier drives like HackWithInfy by Infosys, and assessments by Virtusa, DeltaX, and others. New-age recruiters like Inncircles, offering up to ₹12 LPA, and Amber, which made selections from traditionally core branches such as ECE, EEE, and Mechanical, have also become part of this early drive.

Vignan's remarkable placement performance is no coincidence. It is the outcome of the university's proactive training ecosystem, strong academic-industry collaborations, and comprehensive student development initiatives. These include industry-aligned curriculum upgrades, mock assessments, soft-skill training, and domain-specific technical upskilling-all designed to equip students for an evolving job market.

As the placement season continues, Vignan remains a shining example of what focused preparation, timely execution, and student-centric training can achieve-especially in challenging times.

MoU with APFU

Advance Aquaculture Health, Research, and Capacity Building

A strategic Memorandum of Understanding (MoU) was signed between Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, and Andhra Pradesh Fisheries University (APFU), Vijayawada, to establish a long-term partnership aimed at strengthening research, innovation, and training in the domain of aquaculture health and technology. This collaborative initiative reflects a shared commitment to promoting scientific development in the fisheries and aquaculture sector, with a particular focus on aquatic animal health, diagnostics, and farmer-level technology transfer.

Objectives of the Collaboration

The MoU sets a comprehensive framework for cooperation in areas that are critical to the sustainable growth of aquaculture. Key objectives:

- Collaborative research on aquatic animal diseases and health management.
- Skill development and technical training for students, faculty, researchers, and aquaculture farmers.

VFSTR and Andhra Pradesh Fisheries University (APFU) signed an MoU to strengthen research, training, and innovation in aquaculture health and technology. The collaboration focuses on aquatic animal health, diagnostics, and farmer-level technology transfer. Key activities include joint research, skill development, academic exchange, and shared infrastructure use.

- Exchange of academic and technical personnel for joint teaching, workshops, and research.
- Shared use of laboratory and field infrastructure to support diagnostics, surveillance, and scientific studies.
- Joint development of project proposals to seek funding from government and private agencies.

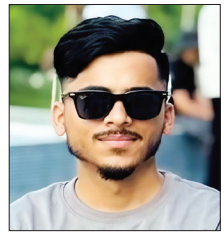
Scope and Implementation

APFU will provide domain expertise in fish health and disease diagnostics, while VFSTR will coordinate academic activities, training sessions, and stakeholder outreach.

Together, the institutions will:

- Organize awareness programs, scientific workshops, and technical training courses.
- Engage students and early-career professionals in field-based research.
- Facilitate mutual access to laboratory facilities and specialized equipment.

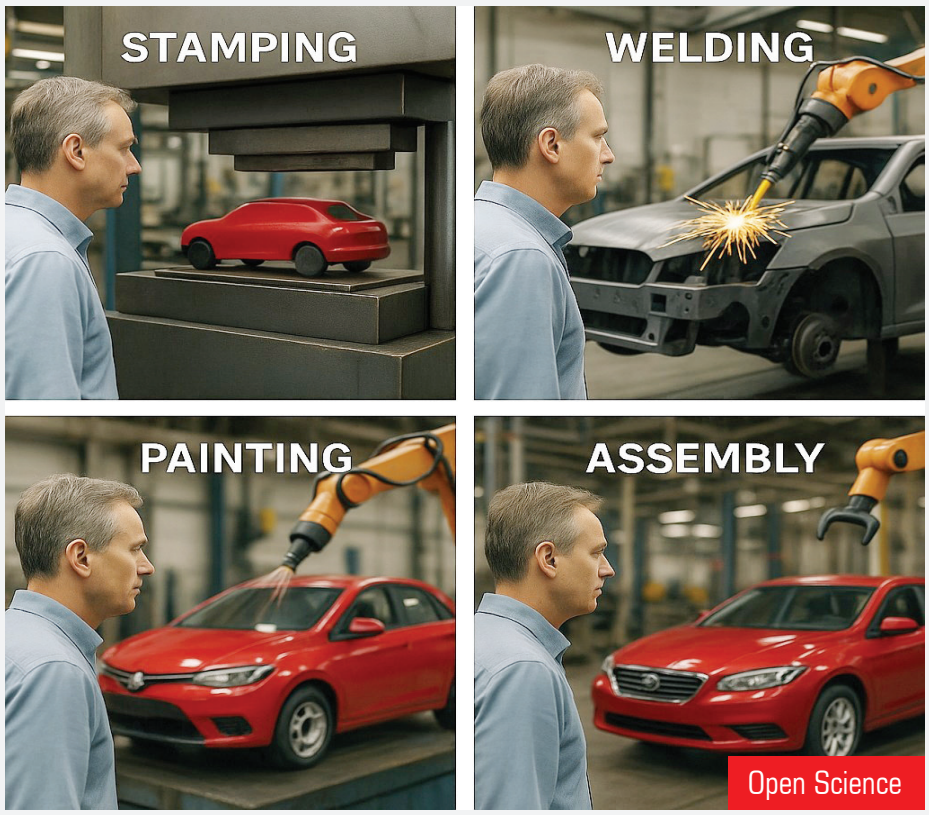
This partnership is expected to bring long-term value to the aquaculture industry, foster academic excellence, and generate impact-oriented research for the broader benefit of the farming community.



by
Mukesh Pandey
II CSE

The Rise of Artificial Intelligence

Why Data Alone



> Charan's Conversation with AI:

Charan: Hey... I'm feeling a little low. I've been trying hard in science (Math, Physics, Chemistry) but I still score poorly.

AI Assistant: Thanks for telling me, Charan. It's clear you've been working hard, and I really admire your honesty. Do you attend classes regularly?

Charan: Yes, I do. I never skip them. But once the lesson ends, my imagination kicks in... and the concepts don't seem to fit there. Everything ends up getting messy.

AI Assistant: That's such an insightful way to describe your experience. It sounds like your mind naturally drifts into creative or abstract thinking which can be a strength. May I ask, do you enjoy subjects like writing, history, or social studies?

Charan: Actually, yes! I love writing and thinking about how Nature/ society works. I love debates too, I feel energized when I get to express myself.

AI Assistant: That's wonderful to hear. You clearly have strengths in communication and analytical thinking. Have you ever considered exploring paths outside science?

Charan: I've thought about it, but I feel bad for not liking science. My parents hoped I'd become an engineer, it feels like I'm letting them down.

AI Assistant: It's completely okay to want something different, Charan. Some people connect more with people, ideas, and stories than equations and that's perfectly valid. Would you like to hear about some fields where your strengths might shine?

Charan: Yes, please. I want to know what my options are just in case I step away from science.

AI Assistant: You could thrive in law, journalism, psychology, public policy, or even media and entrepreneurship. Success isn't about choosing what's "safe" it's about choosing what feels true to you. You're not giving up, Charan. You're growing into who you truly are.

> Charan's Conversation with Father:

(Charan nervously approaches his father, who is sitting at his desk reading a newspaper. The room is quiet. Charan takes a deep breath)

Charan: Dad... I need to talk to you. I... I don't think I want to continue with science anymore. I've been scoring low, and honestly I just don't feel it's for me. I want to switch streams. Maybe literature or arts...

Father: ***(not looking up immediately)***

You're going to study science. You're going to become an engineer. That's final.

Charan: ***(voice tightening, hurt)***

But Dad... Why? I'm telling you, I'm failing. I'm not made for science. You're not even listening to me. This feels like punishment.

(His father now puts the newspaper down. Looks at Charan silently. Then, slowly, he opens a drawer and pulls out a slightly crumpled piece of paper.)

Father: ***(softly now)***

Do you recognize this?

Charan: ***(eyes widen)***

oh no.. tha's... That's my.. That's private

Father: Yes. Your love letter to that classmate of yours. I told your mother I wouldn't embarrass you, and I won't. But let me tell you something, Charan. In that one letter, you did what half the science textbooks fail to do.

Charan: (confused)

What do you mean?

Father:

You described her shadow, and in that shadow you wove mathematics, physics, and chemistry without even trying.

You calculated the angle of sunlight that made her shadow twice her height. That's trigonometry.

You wrote that your feet felt cold when they touched her shadow beneath the scorched Sun. That's thermodynamics and heat transfer.

And you ended by saying that touching her shadow felt like stepping into a bed of blossoms and you called it the "first chemistry" between two people.

Son... you don't hate science. You just haven't seen it through the lens of your own mind yet.

Charan: ***(eyes slowly welling up)***

I didn't realize... I just wrote what I felt.

Father: (gentler now)

Exactly. That's what real science is. Not formulas on paper, but understanding the world in a way only you can. You're not failing science, Charan. You're trying to learn it like someone else.

Learn it like you write. Like you feel. Like you see shadows.

So yes... you'll continue science.

But not to become a machine, my son. To become **a scientist of life,** someone who knows that even a shadow can teach you love, logic, and light.

Charan: ***(quiet, deeply moved)***

Dad... I never thought you'd say something like this. I thought... you'd just force me.

Father: ***(smiling faintly)***

I did. At first. That's the father in me. But I also listened. That's the man in me.

Father: ***(grinning as he folds the letter carefully)***

By the way... one last thing.
What *did* she say after you gave her this poetic... *science-loaded* letter?

Charan: ***(awkwardly scratching his head, hesitant)***

Umm...
She read it... blinked a few times... and then said:
"Love my shadow only... Why me?"

Then she flung the letter at my face.

(There's a pause. Father stares at him for a second then suddenly bursts into uncontrollable laughter, slapping his knee)

Father: ***(between laughs)***

Ayyoo! That poor girl! She clearly doesn't understand **math**, **metaphor**, or **your emotional equations!**

Charan: ***(half-laughing, half-embarrassed)***

Dad.....

Father:

No no, listen, I'm telling you seriously...

You deserve someone who at least doesn't treat her own shadow like a competitor.

Charan: ***(laughing now, shaking his head)***

This is so embarrassing.

Father: ***(chuckling, patting his back)***

Don't worry, my son.
One day, someone will read your words and say,
"I fell in love with the mind behind that math."
Until then... study science, write poetry, and no need to completely stay away from shadows.

(They both laugh together as the light fades in the room, the shadow of the window grill stretching across the floor ironically twice its size.)

In Charan's exchange with the AI assistant, Charan has essentially provided only Open Access data to the AI assistant - marks, interests, and subject preferences.The AI suggests alternative careers that align with his academic performance and expressed passions. But it operates in a vacuum of emotional depth without context from Charan's everyday interactions, subtle talents, or unspoken fears.

In contrast, the conversation with his father is emotionally textured, deeply personal, and rich in nuance that no AI alone could infer. The father doesn't just draw from Charan's academic results, he draws from knowing Charan: the way he writes, the symbols he chooses, the quiet way he sees the world. He translates a poetic moment into a revelation of scientific intuition. That kind of empathetic decoding is human brilliance at its best.

The story unfolds...

by
Dr. L. Srinivasa Raju
Cancer Research

Publications - High Impact Factor Journals in July 2025

S.No.	Dept.	AUTHORS	Indexing	TITLE OF PUBLICATION	SOURCE TITLE
1	EEE	Srikanth D., G. Durga Sukumar., Mr.Sobhan Venkata Subrahmanyam Polamraju	SCIE	A convolutional neural network based energy management system for photovoltaic/battery systems in microgrid using enhanced coati optimization approach	Journal of Energy Storage
2	FT	Ananya Payal., Gasi Datta Sairam Sandeep., Madhuri Bammidi., Abhilash Narayandas., Irshaan Syed., Adaraboina Venkateswara Rao	SCIE	Recent advances in plant protein-based edible coatings for shelf-life enhancement of perishable and high nutritive value foods - A Review	Food Packaging and Shelf Life
3	Biotechnology	Yun Kong., Yuanyuan Liu., Yu Yan., Han Yin., Rui Su., Runxin Wang., Haojing Wang., Firdoz Shaik., Bin Jiang	SCIE	A biomass-modified carbon nitride composite electrode for photoelectrocatalytic enhancement of overall water splitting	International Journal of Hydrogen Energy
5	Maths	V Seethamahalakshmi., U Venkata Kalyani., A Padma., P S S Nagalakshmi., G V Ramana Reddy., Charankumar Ganteda., Vediyappan Govindan., Haewon Byeon., Seepana Praveenkumar., Busayamas Pimpunchat	SCIE	Effects of mass transfer and MHD Casson nanofluid heat transfer on thermophoresis at stagnation point	Case Studies in Thermal Engineering
6	Physics	Suresh Suragani., Kotcharla Hanumantha Rao., L N Patro., Mr. Chereddy Tirupataiah	SCIE	Influence of TiO2 on the physical, thermal, mechanical, optical, and electrical characteristics of Li2O-GeO2-SiO2-Al2O3 glass ceramics	Journal of Alloys and Compounds
7	ECE	M Suman., M Venu Gopala Rao., A S Veerendra., Mr.Subbarao Mopidevi	SCIE	Design of PSS for multi-machine system using extreme learning machine algorithm	Measurement
8	Physics	Suresh Suragani., Kotcharla Hanumantha Rao., L N Patro., Mr. Chereddy Tirupataiah	SCIE	Study of structural, thermal, optical, mechanical, and electrical characteristics of TeO2/ SrO/ SeO2/ Tl2O/ Al2O3 added Li2O-GeO2-SiO2 glass ceramics-feasible solid state electrolytes and dielectric materials	Ceramics International
9	Physics	V Ravi Teja., Dr. Modem Sreenivasulu	SCIE	Glasses doped with europium ions for use in optoelectronic devices: W-LED	Ceramics International
10	Chemistry	Niroja Vadagam., Karthik Sara., S Naveen., Dr. Chandrasekar Kuppan	SCIE	Eco-friendly green HPLC-ELSD and HPLC-UV methods for estimation of hydroxypropyl cellulose, aspartame, and cherry flavor in Montelukast sodium chewable tablets: A reverse engineering approach	Microchemical Journal
11	Biotechnology	Fang Feng., Han Yin., Zijing Ren., Yang An., Firdoz Shaik., Bin Jiang	SCIE	Vinegar-derived nitrogen-based multi-heteroatom doped bifunctional All-carbon electrodes for overall water splitting in a wide pH range	Colloids and Surfaces A: Physicochemical and Engineering Aspects
12	Chemistry	Takumi Nagasaka., Keerthiga Gopalram., Nagashree K L., Dr. Srinivasadesikan Venkatesan	SCIE	Electrochemical sensing of nitrite by Cu and Zn based metal-organic frameworks - A green synthesis approach	Journal of Molecular Structure
13	Chemistry	Raju Doddipalla., Muralidharan Kaliyaperumal., Mahesh Ranga., Arun Kumar Modini., Anil Kumar Nallajarla., Dr. Anandarup Goswami	SCIE	Isolation and in-depth characterization of degradation products of lercanidipine hydrochloride under acid-mediated hydrolysis: Transformation of dihydropyridine moiety to cyclohexenone	Journal of Molecular Structure
14	Chemistry	Sudhanshu Kumar., Aman Kumar., Anamika Chaudhari., Sudip Mandal., Suman Kushwaha	SCIE	Investigating the potential compatibility of various rhodamine derivatives in dye-sensitized solar cells using an experimental and computational approach	Optical Materials
15	Mechanical	Sanjay Kumar Gupta	SCIE	Experimental pool boiling heat transfer performance analysis on novel two-stage hybrid aligned copper oxide nanowires that stand independently and one over the other (nanowires on nanowires) surfaces	Chemical Engineering and Processing: Process Intensification
16	Physics	B Aysha Rifana., Johanan Christian Prasana., S Sakthivel., K Venkata Prasad	SCIE	Theoretical and Experimental Spectroscopic (FT-IR, FT-Raman & UV), Reactive sites, electronic investigation and biological analysis on Quinic acid- MTT assay on dose-dependent cytotoxicity study	Journal of the Indian Chemical Society
17	Chemsitry	Srinivasa Rao Buddepu., Rapolu Venkateshwarlu., Garbapu Suresh., Kishna Murthy Vr Moturu., Vidavalur Siddaiah., Manojit Pal	SCIE	A shorter and alternative route to duvelisib: Application in scale-up synthesis	Journal of the Indian Chemical Society
18	Chemistry	Aman Kumar., Suman Kushwaha., Santosh Kumar Singh., Sudip Mandal	SCIE	Computational investigations on Heteroleptic Dithiocarbimate–diamine-based metal complexes as photosensitizers in dye-sensitized solar cells	Computational and Theoretical Chemistry
19	CSE	Jeffin Gracewell., A Arul Edwin Raj., C T Kalaivani., Renugadevi R	SCIE	Hierarchical aspect-based sentiment analysis using semantic capsuled multi-granular networks	Information Systems
20	Chemistry	Rapeti Thrinadh Kumar., Sohel C Mulani., Dr. Shaik Anwar	SCIE	Design, synthesis, and apoptotic evaluation of spiro[indoline-3,3'-pyrazolo[1,2-a]indazole] derivatives via [3 + 2] N,N-cycloaddition	Organic and Biomolecular Chemistry
21	Chemistry	Mangari Madhusudhan Reddy., Abhithaj J., Eeda Koti Reddy., Dr. Shaik Anwar	SCIE	Synthesis, docking, in vitro and in silico investigations of novel tacrine derivatives as acetylcholinesterase inhibitors	Organic and Biomolecular Chemistry

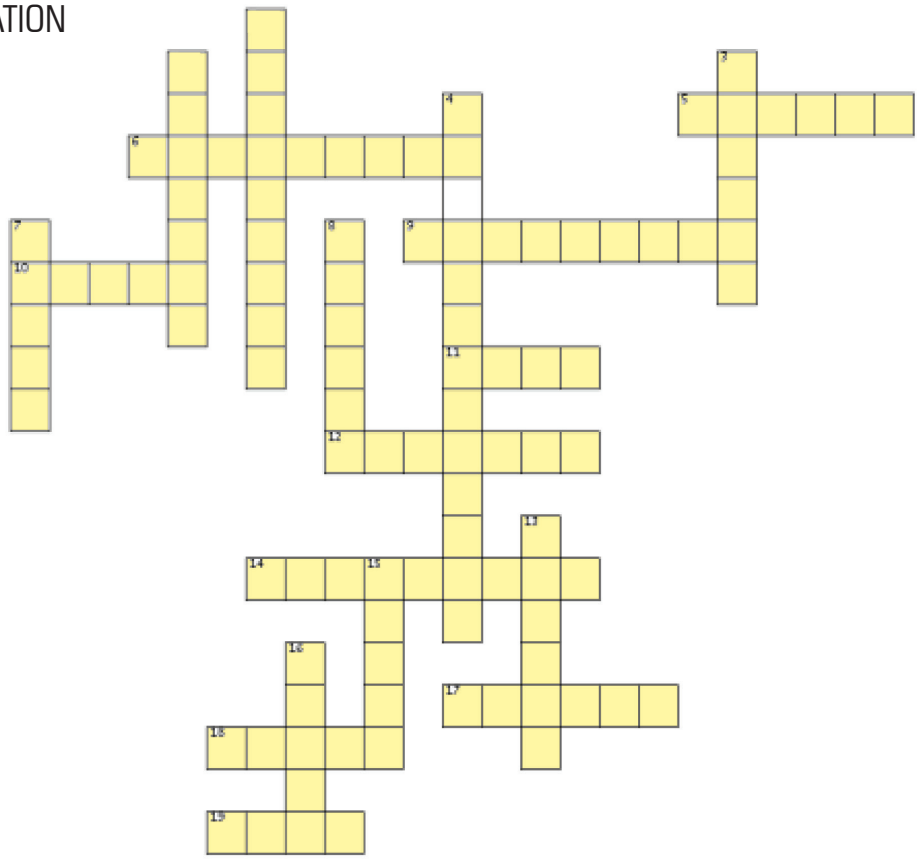
S.No.	Dept.	AUTHORS	Indexing	TITLE OF PUBLICATION	SOURCE TITLE
22	Pharmacy	Anoop Bodapati., Mr. Pagala Bangaraiah	SCIE	A comprehensive evaluation of a bioanalytical technique for Encorafenib and Cetuximab combination Cancer therapy by LC-MS/MS and their pharmacokinetics in plasma	Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences
23	Chemsitry	Jyothi Prashanth., Neelam Yesubabu., Dharmarajan Sriram., Boddu Rama Krishna., Koya Prabhakara Rao	SCIE	Synthesis of Phenoxy Substituted Imidazo[1,2-b]Pyridazine-Based Amide Derivatives for Antibacterial and Anti-Tubercular Activities	Chemistry and Biodiversity
24	ECE	Abhishek Kumar., Kehariom Dewangan., Prabu Krishnan	SCIE	Channel capacity enhancement of RIS-assisted FSO communication system for high-speed trains access connectivity	Physical Communication
25	Chemsitry	Korripally Premsagar., Ganesh Babu N V N Kolukula., Penke Vijaya Babu., Sibbala Subramanyam	SCIE	Synthesis, anti-fungal activities and in silico studies of triazole/benzimidazole hybrid molecules	Synthetic Communications
26	Pharmacy	Sudha Divya Madhuri Kallam., Mithun Rudrapal., Anoop Bodapati	SCIE	Simultaneous Determination of Atezolizumab and Bevacizumab by LC–MS/MS in Rat Plasma and Its Application to a Pharmacokinetic Study	Biomedical Chromatography
27	ECE	Muni Sekhar Reddy K., Dr. Usha Rani Nelakuditi	SCIE	Illustration of Image Registration-Based Novel Segmentation and Classification Model Using Multimodal Medical Images with 3D-TRRSegnet and Adaptive RAN	Cybernetics and Systems
28	Maths	Aritra Narayan Hisabia., Manideepa Saha	SCIE	Sign patterns of semimonotone matrices	Linear Algebra and Its Applications
29	Physics	P Venkata Ramana., Y Rama Krishna., Prasadarao Bobbili., K Venkata Prasad., K Chandra Mouli	Scopus	Investigation of the anti-cancer drugs imatinib and thalidomide using analytical spectroscopy (FT-IR, UV-Vis) and molecular docking simulations	Results in Chemistry
30	Mechanical	Atiqur Rahman., S M Mozammil Hasnai., Rustem Zairov	ESCI	Thermo-Hydraulic Performance of Tubular Heat Exchanger with Opposite-Oriented Trapezoidal Wing Perforated Baffle Plate	Tehnicki Glasnik-Technical Journal
31	EEE	Uma Ravi Sankar Yalavarthy., Mr. Bharath Kumar Narukullapati	ESCI	Digital twin technology in electric and self-navigating vehicles: Readiness, convergence, and future directions	Energy Conversion and Management: X
32	Biotechnology	Barkha Khilwani., Bhumandeep Kour., Nidhi Shukla., Abdul S Ansari., Nirmal K Lohiya., Sugunakar Vuree., Prashanth Suravajhala., Renuka Suravajhala	ESCI	Characterization of lncRNA-protein interactions associated with Prostate cancer and Androgen receptors by molecular docking simulations	Biochemistry and Biophysics Reports
33	Chemical	N D Solomon Godwin Babu., Mrs.Vijetha Ponnam	ESCI	Synthesis of Magnesium Titanate from Magnesium Chloride a Byproduct of Zirconium Plant	Journal of Sustainable Metallurgy
34	ECE	Shaik Deneyaz., Satyajeet Sahoo., Aswini Kumar Samantaray		Memristor augmented ReRAM circuit- a versatile approach	e-Prime - Advances in Electrical Engineering, Electronics and Energy
35	EEE	B S S V Ramana., S Chanikya Kumar., Mr. Bharath Kumar Narukullapati		A web-based machine learning framework for building energy efficiency prediction	Franklin Open
36	Physics	Nakka Praveenkumar., Nasina Madhusudhana Rao., Dr. Kalapala Venkata Madhuri		Optical and magnetic properties of Cr-doped zinc phosphide nanoparticles prepared by the solid-state reaction method	Next Materials
37	Biotechnology	Venu Paritala., Dr. K.Srikanth		Gastrointestinal DB: A next-generation multi-omics resource for gastrointestinal disease and molecular research	The Microbe
38	Chemistry	M S S R Tejaswini., Pankaj Pathak		Optimizing the photodegradation process of low-density polyethylene using Taguchi's robust statistical design	Next Materials
39	Maths	Sabarinathan Sriramulu., Selvam Arunachalam., Ali Allahem., Asma Alharbi., Taha Radwan., Salah Boulaaras		Chaos and stability analysis of the nonlinear fractional-order autonomous system	Alexandria Engineering Journal
40	Chemistry	Santhosh Kumar Ettaboina., Satyasree Nannapaneni., Naresh Kumar Katari., Vijay Kumar Chollety		Development and Validation of an RP-HPLC Method for Organic Impurity Profiling in Baclofen Utilizing Robustness Through a Quality-by-Design (QbD) Approach: A Comprehensive Forced Degradation Assessment	Biomedical Chromatograph
41	Pharmacy	Pavan Kumar Jaini., Durgaganesh Jami., Mohana Vamsi Nuli., Sambasiva Rao Tummala., Ajay Kumar Chukka., Hemant Kumar Tatapudi		Sustainable Quality by Design Approach Based UHPLC Technique for Triple Combination Antiviral Drugs: Appraisal of Green and White Metrics	Separation Science Plus
42	MBA	S Durga., Venkateswara Rao Podile., Visalakshi Narapareddi		Exploring the factors determining fintech adoption among Indian users integrating Theory of Planned Behaviour (TPB) and Social Learning Theory (SLT)	International Journal of Accounting and Economics Studies
43	Chemsitry	Yamarthi Venkateswara Rao., Dr. Jithendra Chimakurthy		Bioanalytical Method Development and Validation for Quantification of an Anti-Neoplastic Agent - Glasdegib by using LC–MS/MS (ESI) in Human Plasma	Current Trends in Biotechnology and Pharmacy
44		Senthil Kumar Jaya Prakash., Ravi Aluvala., Srinivasa Rao Y., Kusuma Thimmapuram., Srihari G		The Role of Business Strategy in Advancing Sustainability Goals: a Comprehensive Systematic and Bibliometric Analysis	Circular Economy and Sustainability
45	Chemical	Raveena Malkari Katika., Dr. Sumalatha Boddu		Synthesis and Characterization of Nanobiochar for Enhanced Photo Decolouration of Azoic Dye	Journal Of The Institution Of Engineers (India): Series E - Chemical And Textile Engineering
46	CSE	Sripathi Kalvakolanu., Madhavaiah Chendragiri., Somasekhar Donthu., Narasimha Rao Mval., Hanumantha Rao Sama		Trapezoidal Fuzzy Approach to Prioritize Analytical Competencies of HR Professionals	Contemporary Mathematics (Singapore)
47	Physics	Nakka Praveenkumar., Dr. Kalapala Venkata Madhuri		Optical properties of Eu3+ doped calcium sodium bismuth borosilicate glasses via melt quenching method	Next Materials
48	EEE	Arvind R Singh., Rajkumar Singh Rathore., Nazir Ahmad., R Seshu Kumar., A Pandian., Fatma S Alrayes., Randa Allafi		AI-enhanced smart grid framework for intrusion detection and mitigation in EV charging stations	Alexandria Engineering Journal

Ph.D @ A Glance

Award of Ph. D. degrees in the months of May & June, 2025

Sl. No.	Name of the Ph.D scholar	Teaching / Industry	Name of the Department	Name of the guide/s	FT/PT	Title of the thesis
1	G. Naganjaneyulu	Industry	Chemistry	Dr. K. Ravi Kumar	PT	"Design, Synthesis, In-Silico Modeling and In-Vitro Apoptotic Activity of New Quinazoline, Triazole, and Triazine Scaffolds."
2	S. Sudheer	Academician	MBA	Dr. Sivakoti Reddy	PT	"Assessing the impact of Celebrity Endorsement in determining the Customer Buying Intentions – A Study among the South Indian Branded Gold Jewellery Customers"
3	D. Bhupal Naik	Academician	CSE	Dr. Venkatesulu Dondeti	PT	"Federated Learning Framework for Privacy, Security and Trust in Vehicular Networks"
4	Ravula Prathap Kumar	Academician	CSE	Dr. U. Srilakshmi	PT	"Detection and Prevention of Wormhole Attacks in A Vehicular Ad-Hoc Network"
5	B. Triveni	Academician	Maths	Dr. Seetharamanjanyulu	FT	"Some Problems on Convective Boundary Layer Flow of non-Newtonian Fluids over a Stretching Sheet."
6	K. Lakshmi Prasanna	Academician	ECE	Dr. Subba Rao	FT	"Classification and localization of Intracranial Hemorrhages through Deep Learning-based Optimization Algorithms."
7	K. Tirupathaiah	Academician	ECE	Dr. Ravi Sekhar Y	FT	"Channel Estimation in 5G Massive MIMO using DL Techniques."
8	Azeem Mohammad Abdul	Academician	ECE	Dr. N. Usha Rani	FT	"Design and Simulation of an S-band Power Efficient Fractional-N PLL Synthesizer for Telemetry Applications."
9	B. Vinay Kumar Jain	Academician	Civil	Dr. N. Ruben	FT	"Performance and microstructural characterization of Fly Ash and GGBS Based Geopolymer Mortar."
10	Ponduri Vasanthi	Academician	ECE	Dr. Laavanya Mohan	FT	"Detection of Small and Dense Objects Using YOLOv5 and Transformer- Based Deep Learning Models."
11	Varadhi Ravi Teja	Academician	Physics	Dr. Srinivasulu	PT	"Europium Ion Doped Borate-Silicate-Phospate(BSP) Glasses for Optoelectronic Applications : W-LED"
12	C. Umamaheswari	Academician	BT	Dr. Asha	PT	"Design, synthesis and biological evaluation of nitrogen based heterocyclic compounds as anti-cancer agents and protein stability & binding studies"
13	Mr. Nakka Srinivasu	Academician	Chemistry	Dr. Nagaraju	PT	"Design, synthesis and biological evaluation of nitrogen based heterocyclic compounds as anti-cancer agents and protein stability & binding studies"

SPACE EXPLORATION



Across

5. A NASA mission series that landed humans on the Moon
6. An object placed in orbit to collect information or for communication
9. A region of space where gravity is so strong that nothing can escape
10. The curved path of a celestial object around a star or planet
11. The fourth planet from the Sun, known as the Red Planet
12. The first artificial satellite launched by the Soviet Union
14. A person trained to travel and work in space
17. A system of millions or billions of stars held together by gravity
18. Relating to the Moon
19. The United States' space agency

Down

1. An instrument to observe distant objects in space
2. The force that attracts objects toward one another
3. Private aerospace company founded by Elon Musk
4. First human to walk on the Moon
7. An icy celestial body with a tail when near the Sun
8. The universe seen as a well-ordered whole
13. A space telescope that has provided deep images of the universe
15. A robotic vehicle designed to explore the surface of a planet
16. The second planet from the Sun, Earth's "sister" planet

ANSWERS

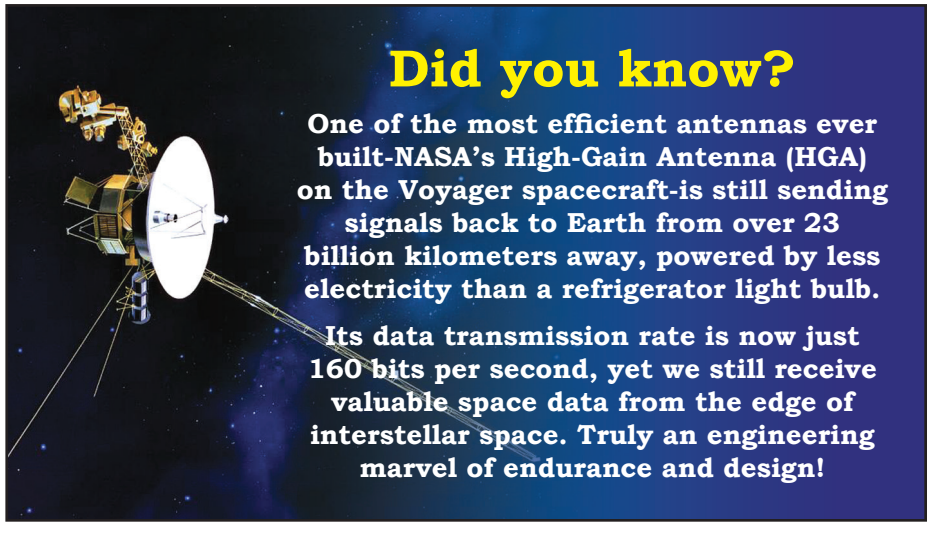
Across : 5. Apollo, 6. Satellite, 9. Black hole, 10. Orbit, 11. Mars, 12. Sputnik 14. Astronaut, 17. Galaxy, 18. Lunar, 19. NASA
Down : 1. Telescope, 2. Gravity 3. SpaceX 4. Neil Armstrong, 7. Comet, 8. Cosmos, 13. Hubble 15. Rover 16.Venus

Funology

Knowledge Check

1. Which of the following best describes the Nyquist Theorem in digital signal processing?
   A) Limits the maximum amplitude of a signal
   B) States that a signal must be sampled at least twice its highest frequency
   C) Describes thermal noise in analog circuits
   D) Governs data compression ratios
2. In finite element analysis (FEA), what does "mesh refinement" typically improve?
   A) Computational speed B) Graphical quality
   C) Accuracy of the solution D) Number of boundary conditions
3. What is the function of a PID controller in automation systems?
   A) Convert analog signals to digital
   B) Generate PWM signals
   C) Minimize error using proportional, integral, and derivative control
   D) Boost voltage in AC systems
4. In materials science, which method is used to determine the crystal structure of a material?
   A) Raman spectroscopy B) X-ray diffraction (XRD)
   C) Scanning Electron Microscopy (SEM) D) Ultrasonic testing
5. Which transistor configuration provides the highest input impedance?
   A) Common emitter B) Common collector
   C) Common base D) Differential amplifier

Answers : *1. B) States that a signal must be sampled at least twice its highest frequency 2. C) Accuracy of the solution 3. C) Minimize error using proportional, integral, and derivative control 4. B) X-ray diffraction (XRD) 5. B) Common collector*



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"Learning never exhausts the mind." – *Leonardo da Vinci*

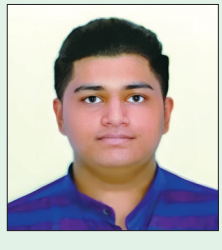
Published under the aegis of Registrar Office, by Dr. P. M.V. Rao, Registrar
Vignan's University, Vadlamudi - 522 213, Guntur Dist. A.P.

From the readers

As a student, I truly appreciate how our campus is becoming a hub for innovation and opportunity.

The coverage on cultural events and international student life shows how diverse and welcoming our university is. Workshops on AR/VR, drone tech, and sustainability are preparing us for industries that didn't exist a decade ago. I especially enjoyed the human stories-how students turn struggles into strength and dreams into action.

Seeing faculty actively involved in cutting-edge research builds my confidence in the education we receive. I look forward to more behind-the-scenes insights, student voices, and stories of transformation. This isn't just a newsletter-it feels like a mirror of who we, as students are becoming because of this institution of learning, achievement and experience..



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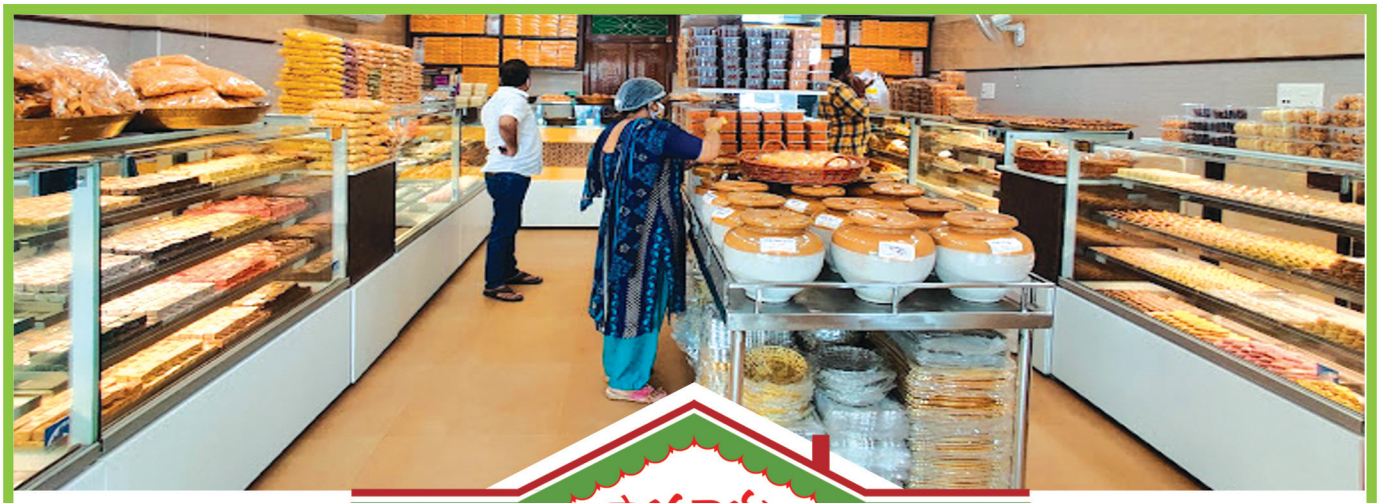

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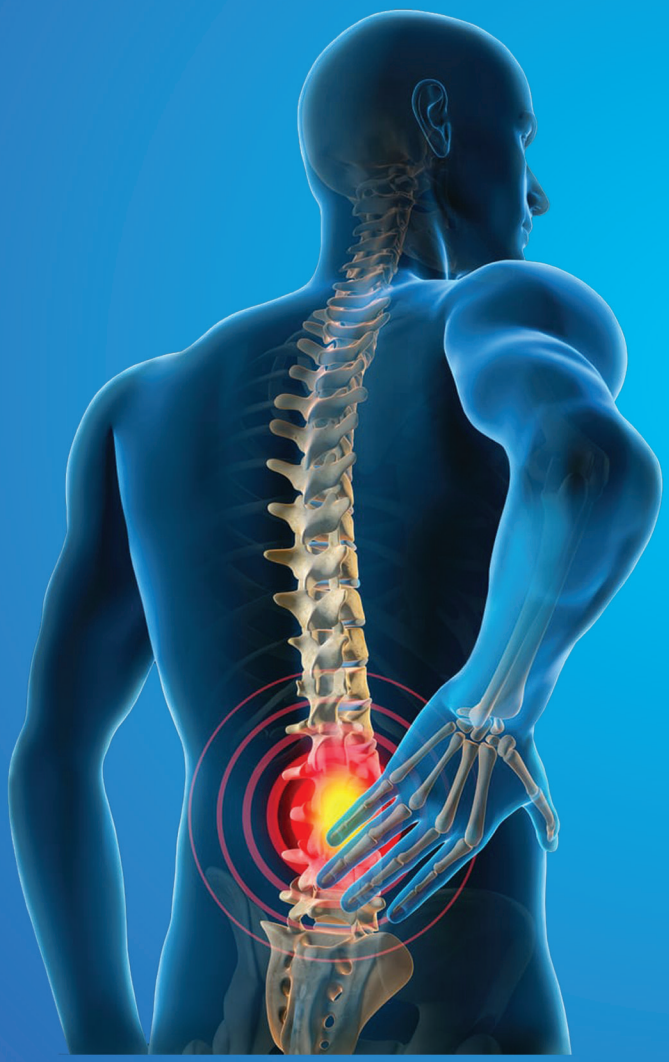
andhra
SPINE CENTRE



Andhra Spine Centre

Andhra Spine Centre, a dedicated clinic in Spine Clinics located in Brodipet, Guntur, offers high-quality healthcare services to patients of all ages.

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Andhra Spine Centre has been a pillar in the Spine Clinics sector for many years.

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Andhra Spine Centre

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