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The Need of the hour
Industry & Academia

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From the Editorial Desk

"Let higher education flow like perennial rivers, quenching the thirst of generations of seekers and scholars."

— G. Saraswathi Devi

Month by month, Vignan brings fresh energy, new beginnings, and inspiring journeys. Students arrive with dreams in their eyes, and over time, those dreams take flight. With each semester, they grow stronger—ready to soar toward higher studies, global opportunities, and meaningful careers.

This month, as we reflect on our progress, the Centre for Environmental Pollution Control, School of Applied Sciences & Humanities, and Department of Chemistry, in collaboration with IQAC, hosted a Faculty Development Program on Sustainable Engineering. The program emphasized ESG principles, sustainable materials, and circular economy models, reinforcing our commitment to eco-conscious education and research.

Our faculty also demonstrated resilience and adaptability through an AICTE-sponsored FDP on Innovation and Entrepreneurship, training over 60 educators in design thinking, IPR, and start-up strategies. This ensures Vignan classrooms remain future-ready. Similarly, the Faculty Industry Immersion Program at Plumsoft Solutions provided hands-on exposure to LLMs, AI integration, and API development-bridging the gap between academia and industry.

Vignan strengthened industry and community linkages this month through a new MoU with Ananth Technologies Limited, advancing aerospace collaborations and research. In placements, resilience was again evident. Despite market challenges, our students continued to excel, securing opportunities with leading companies and reinforcing Vignan's standing as a hub of talent and determination.

At Vignan, learning is about more than books and grades. It is about nurturing leaders, innovators, and change makers. From raising awareness about sustainability to participating in national and international events, our students embody values, excellence, and responsibility.

Dr. M. Malakondaiah
Advisor, VFSTR

A Salute to Visionary Leadership

Founder's Day 2025 at VFSTR was celebrated with gratitude and inspiration, honoring the life and vision of Chancellor Dr. Lavu Rathaiah Garu. Distinguished guests, heartfelt speeches, and a spirit of reflection marked the day, reminding the Vignan community of its values and purpose. The celebration concluded with joy, leaving a lasting sense of pride and motivation among students and faculty.

Foundation of VFSTR University Day Celebrations

The Vignan family came together with warmth and enthusiasm to celebrate Founder's Day on 28th July 2025, marking the birthday of the institution's visionary Founder and Chancellor, Dr. Lavu Rathaiah Garu. The Convocation Hall, filled with students, faculty, and distinguished guests, became a space of gratitude,

reflection, and inspiration as the program began at 11:45 AM. The ceremony opened with a heartfelt welcome address by Dr. K. Meghana, who expressed her wishes for the occasion and set the tone by highlighting the global values and ideals that guide Vignan. Soon after, dignitaries including Mrs. L. Rani Rudrama Devi, Mrs. Mounica, and Dr. P.M.V. Rao took to the stage, sharing their vision and reflecting on the milestones achieved by VFSTR under the Founder's leadership.

The highlight of the event was the thought-provoking keynote address by Dr. Pavuluri Subbarao, CEO and Founder of Ananth Technologies. In his speech, he emphasized the importance of universal values and the critical role of education in shaping a progressive and responsible world. His words resonated deeply with the students, reminding them of the need to blend knowledge with character.

The ceremony was presided over by Dr. P.M.V. Rao, who drew from his rich experience to describe the institution's continuous pursuit of academic excellence. The gathering was then moved by the emotional and inspiring speech of the Chancellor, Dr. Lavu Rathaiah Garu, who spoke passionately about his vision for education, his lifelong dedication to learning, and his belief in empowering the youth to lead with purpose and responsibility. His words left the audience both reflective and motivated.

Adding to the spirit of the day, Col. Prof. P. Nagabhushan, Vice Chancellor of VFSTR, addressed the students and urged them to embrace a global mindset, serve society with integrity, and strive to innovate for the greater good. His message reinforced the values that lie at the heart of the university's mission. As a mark of respect, a felicitation ceremony was held in honor of the Chief Guest, appreciating his invaluable contributions to the fields of space and technology. This moment stood as a reminder of the powerful link between education, innovation, and national progress.

The celebration concluded on a joyous note with the cake-cutting ceremony, where Dr. Lavu Rathaiah Garu was requested to grace the occasion by honoring the moment. The program came to a close at 2:00 PM, leaving every participant with a sense of pride, gratitude, and inspiration, carrying forward the legacy of visionary leadership.

by
G. Tapaswi VNSL
III CSE

73 Years of Vision and Inspiraion
Celebrating the Birthday
of our Hon'ble Chairman, Dr. Lavu Rathaiah

Celebrating the 73rd birthday of our Hon'ble Chairman, Dr. Lavu Rathaiah Sir, the occasion was filled with vibrant academic, cultural, and service initiatives that reflected his vision and values.This special occasion was observed not only within the University but also in the surrounding communities, reflecting the values of compassion and responsibility that our Chairman has always stood for.

As part of the celebrations, essay writing, elocution, and quiz competitions were organized in the adopted village schools and junior colleges of Vejendla, Garuvupalem, Narakoduru, and Angalakuduru. Students participated with enthusiasm, and winners were honored with tokens of appreciation, encouraging them to continue nurturing their talents and academic excellence. In addition, a series of community service programs were conducted throughout the week. On 23rd July, visits to orphanages with grocery distribution were arranged, followed by a visit to old age homes on 24th July. Cloth distribution at Naidupeta and an Eye Camp were held on 25th July, while Medical Camps were organized on 26th and 27th July. The service initiatives concluded on 28th July with a large-scale Blood Donation Camp, where students, staff, and volunteers contributed wholeheartedly to this noble cause.

The highlight of the celebrations came on 28th July, when Dr. Lavu Rathaiah Sir celebrated his birthday at the Vignan's University Convocation Hall along with students and faculty. The atmosphere was filled with joy and gratitude as Chairman Sir cut the birthday cake, marking the occasion with blessings, warmth, and inspiration for all.

by
A. Rishitha
III CSE

THE BURDENED DREAMER

I am a person,
Once a human, now molded by a path I didn't choose.
I am a person,
Whose dreams were buried silently by society's rules.

I am a person,
Whose loved ones left,
All because of what the world rumoured about us.

I've heard them all say:
"To be someone, you must be successful."
But none of them ever define what "success" truly is.

Will I be successful
If I follow the common road-
Like sheep among the herd?

Or will I find success
By striving hard, marching toward my own dream?

Will I be successful, If I wander down the unknown road,
Alone, confused, unsure what to do?

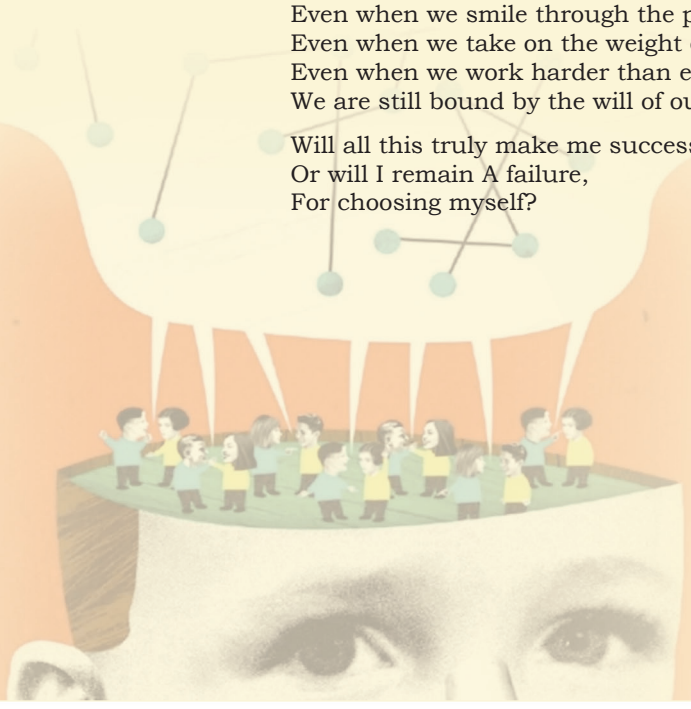
Or will I be truly successful
If I reach my dreams through pain,
through passion, By working hard for me?

Even if I choose the common path and succeed
Will I be happy? Or will joy only come
From doing the work that sets my soul on fire?

We, the students, Are treated like tins,
waiting to explode when ignited.
Society, instead of nurturing us, Degrades us.

Even when we smile through the pressure,
Even when we take on the weight of responsibility,
Even when we work harder than ever,
We are still bound by the will of our creators.

Will all this truly make me successful?
Or will I remain A failure,
For choosing myself?



by
V. Trishank
III CSE

More than Just a Day

A Journey of Memories and Growth

VIGNAN'S 13th CONVOCATION
2nd August 2025

Convocation is more than just a single day; it represents four years of consistency, commitment, hard work, and learning at every step. It is also the story of everyone-bunking classes with friends, laughing endlessly, sharing gossips, eating together, last-minute batting before exams, standing by one another during tough times, and creating special bonds with seniors, juniors, and friends. These moments will remain everlasting memories.

Vignan's University witnessed this momentous occasion on August 2, 2025, as the Convocation Ceremony for the 2021-2025 batch was held in the grand Convocation Hall at VFSTR, Vadlamudi. The event brought together students from all departments, marking the conclusion of their journey at Vignan and the beginning of a promising new chapter in life. The ceremony commenced with inspiring speeches from the dignitaries of Vignan, including the Hon'ble Governor of Andhra Pradesh Shri S. Abdul Nazeer and esteemed guests Shri Chintalapati Srinivasa Raju, Founder, iLabs Group, Hyderabad., Shri Ashok Atluri, Managing Director, Zen Technologies, Hyderabad., Dr. Komanduri Ramachary, Founder, Little Musicians Academy, Indian Playback Singer Composer and Music Guru. Their words encouraged graduates to step into the world with confidence and purpose.

> Vignan's University celebrated its 2025 Convocation for the 2021–2025 batch on August 2, marking four years of hard work, memories, and transformation. The event honored academic and extracurricular achievers and sent graduates forward with confidence, values, and dreams for the future.

The University has always created opportunities for students to excel-

not just in academics but also in research, cultural activities, sports, and community service. Those who stood out in various domains-academics, co-curricular and extracurricular activities, leadership, or social service-were recognized and honored with medals and awards. The proud moment when students walked on stage with their families to receive these honors was truly unforgettable.

As the degrees were conferred, the graduates reflected on the guidance of faculty, the support of peers, and the love of their families that shaped their journey. They leave as confident individuals, equipped with knowledge, skills, and values that will help them succeed in life.

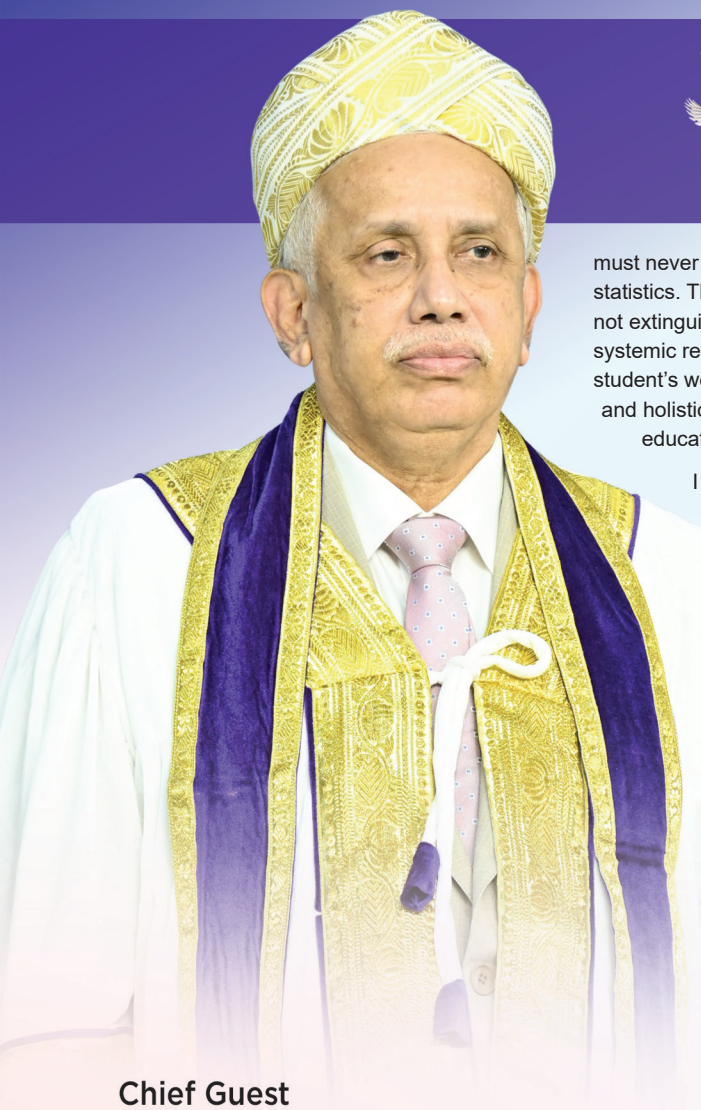
For one last time, as part of Vignan's family, they stood together and took an oath to uphold the responsibilities, honesty, and discipline instilled in them during their years at the university. The Convocation Hall resonated with unity, pride, and hope for a brighter future.

Convocation Day was not just the end of a phase but the beginning of countless opportunities. With degrees in their hands, dreams in their hearts, and blessings from teachers, mentors, and families, the graduates bid farewell to their alma mater, carrying memories that will last forever.

by
N. S .N. B. Nihari, III CSE

Governor's Adress to the gathering

VIGNAN'S 13th CONVOCATION
2nd August 2025



Chief Guest
Shri S. Abdul Nazeer
Hon'ble Governor of Andhra Pradesh

It gives me immense pleasure to be amongst the august gathering here today, on the auspicious occasion of 13th Convocation of Vignan's Foundation for Science, Technology & Research, a deemed to be University, one of the most highly reputed and esteemed higher educational institutions of Andhra Pradesh.

At the outset, I extend my hearty congratulations and felicitations to all the graduating students receiving their degrees in the 13th Convocation here today, and recipients of gold medals, and merit certificates.

Today is a moment of achievement. But it is also a moment of reflection. Recently, the Supreme Court of India reminded us - in powerful and emotional terms - that education must never become a burden. That students must never be reduced to mere ranks or statistics. That learning must ignite the soul, not extinguish it. The Apex Court called for a systemic reform so that the institutions put the student's well-being, their emotional safety, and holistic development at the heart of education.

I am happy to learn that rooted in the visionary ideals of its founder, Dr. Lavu Rathaiah garu, the Vignan's University has championed a holistic educational framework for decades. From implementation of inclusive classrooms, peer-driven learning, and strong mental health support systems - Vignan's students' voices are heard, their efforts are seen, and their future is safeguarded. Success is not defined by a grade point average alone - it is measured through character, curiosity, creativity, and compassion.

After my interaction with the University's leadership, I have understood that unlike traditional institutions bound by silos, Vignan has evolved into a truly multi-disciplinary University. Because we all know - today's problems do not come with subject tags.

Climate change is not just environmental - it is political, technological, and ethical. Mental health is not just psychological - it is social, digital, and economic. Artificial intelligence is not just engineering - it is law, design, and philosophy.

By allowing students to combine engineering with humanities, design with law, agriculture with AI, Vignan is not just creating graduates - it is nurturing thinkers, leaders, and solution-builders for a complex world.

In agriculture, engineering has given us drones, sensors, and predictive tools for smart farming.
In healthcare, it has transformed diagnostics and drug delivery.

In policy, education, and psychology, it powers data-driven models and sustainable solutions. Engineering is no longer a discipline - it is all pervasive and seen a language of transformation, which is at the core of Vignan's vision for the future.

Andhra Pradesh is reimagining **Amaravati - the dream capital of the people of the State** - not merely as an administrative capital, but as a future city emerging as a symbol of technological excellence, digital governance, and innovation-driven progress. Envisioned as a "People's Capital" and a "Tech & Knowledge City," **Amaravati** aspires to redefine urban living through smart infrastructure, sustainability, and citizen-centric digital services. Andhra Pradesh is poised to make a historic stride in cutting-edge technology with the ambitious "Quantum Valley" project, aimed at transforming the State into a global hub for quantum technology. This initiative aligns with India's National Quantum Mission (NQM) and seeks to position Amaravati, as a beacon of innovation like Silicon Valley. With a clear roadmap, strategic partnerships, and a focus on practical applications, Quantum Valley promises to reshape Andhra Pradesh's economy and place India on the global quantum map.

The State government is actively driving this transformation through policies that embrace AI-enabled governance, green energy adoption, digital education reforms, and technology-powered public service delivery.

In this context, Universities hold a pivotal role. Their relevance today extends far beyond traditional education - they are becoming the engines of innovation, research, entrepreneurship, and inclusive development. They are not just knowledge centers, but impact centers. Who are going to be the architects of Amaravati? Not just bureaucrats, not just engineers, but it is inspired by youth like you – the young graduates of Universities like Vignan. As one of the leading institutions in the region, Vignan's University is seen not just as a participant in this transformational process, but as a strong technological pillar supporting

Amaravati's ambitious vision for the future.

Dear students,

You are graduating today not just with degrees, but with responsibilities. You carry with you not just knowledge, but the vision and values of this great institution. Let your success not be defined only by your career, but by your contribution to society, your kindness, your resilience, and your courage to do what is right.

Here, I am reminded of the following inspirational Subhashita:

न चौरहार्यं न च राजहार्यं
न भ्रातृभाज्यं न च भारकारि।
व्यये कृते वर्धत एव नित्यं
विद्याधनं सर्वधनप्रधानम्॥

meaning: It cannot be stolen by thieves, nor can it be taken away by kings. It cannot be divided among brothers and it does not cause a burden on your shoulders. If spent well, it indeed always keeps growing. The wealth of knowledge is the most superior wealth of all.

What is success? Success is like a magic word-everyone wants it, but everyone cannot achieve it. So, what does it mean to be successful in life? Success is not about wealth or fame. Being successful is about achieving goals, fulfilment, and happiness, whether they are related to your career, personal life, or well-being. Success is not the key to happiness. Happiness is the key to success. If you love what you are doing, you will be successful.

As someone rightly said, **"If you do not design your own life plan, it is likely that you will fall into someone else's plan."** If we do not find out what our unique definition of success is, we might end up climbing the wrong ladder. That ladder will take us to someone else's definition of success, which will only lead to realizing in the future that we achieved the wrong goals.

Those who have achieved success are clear on what it means for them, to reach the top.

Throughout our life, we learn various ideas of success from our parents, teachers, and friends. Everyone has their agenda and idea of who and what we should be. Although, you can value the opinions of others, you should have an idea of your own.

Here, I would like to quote Swami Vivekananda who said: ***"Take up one idea, make that one idea your life. Think of it, dream of it, live on that idea. Let the brain, muscles, nerves, every part of your body, be full of that idea, and just leave every other idea alone. This is the way to success."*** I unquote.

Do not compare yourself to others:

Everyone's path is different. Just because someone seems a little ahead of you does not mean he is more successful. Instead of comparing your journey to others, look at your past - to see how closer you have reached to your goal.

Your journey to success lies in discovering the right balance between the different aspects of success and how they align with what truly brings you happiness. Setting clear goals and staying motivated can also help on your journey to identify what success means to you.

The Japanese call this concept ikigai. To find your ikigai, think about what you love, what you are good at, what you can get paid for, and what the world needs. If you draw each of these into circles, the intersection of those circles, where they all overlap is your ikigai. It is important to note that *ikigai* does not typically refer only to one's personal purpose and fulfillment in life, it is both a personal pursuit and for the benefit of the society at large. *Ikigai* brings meaning, purpose, and fulfillment to your life, while also contributing to the good of others.

Sometimes, the greatest successes result from the worst failures. For example, before becoming the President of the United States of America, Abraham Lincoln…

- Was defeated for the State Legislature
- Lost in his bid for Speaker of the House
- Was defeated in the nomination for the Congress
- Lost twice in a campaign for the U.S. Senate
- The lesson here is he never gave up his pursuit of success.

Here, it is apt to quote our former President Bharat Ratna Dr. A.P.J. Abdul Kalam's wise words who said and I quote: ***"If you fail, never give up because F.A.I.L. means 'First Attempt in Learning.' End is not the end; in fact, E.N.D. means 'Effort Never Dies.' If you get No as an answer, remember N.O. means 'Next Opportunity."*** I unquote.

Success is a journey. It depends on the steps you take to achieve success, and anyone can be successful at the end of the journey. The key is that, in order to reach the endpoint successfully, you need to actually start the journey. The journey here means the commitment you make to yourself, to achieve success in whatever you are pursuing. Success means different things to different people. Success in life can be defined as achieving the goals set for yourself that bring you a sense of accomplishment, purpose, happiness, and satisfaction.

Mahatma Gandhi once said and I quote: ***"Satisfaction lies in the effort, not in the attainment. Full effort is full victory."*** I unquote. For him, true success meant living a purposeful life grounded in truth, non-violence, and sympathy for the downtrodden.

As you walk into the world, remember-you were not trained to follow a path. You were trained to create one. The torch is now in your hands. Carry it with dignity, purpose, and light.

Before concluding, I would like to mention the following inspirational Sanskrit Shloka:

दृष्टिपूतं न्यसेत्पादं वस्त्रपूतं जलं पिबेत् ।
सत्यपूतां वदेद्वाणीं मनःपूतं समाचरेत् ॥

Meaning: Take a step after seeing the ground, drink clear water filtered with a cloth, utter words that are truthful and do your deeds with a clear mind.

I once again congratulate all the graduating students, medal winners on their achievement.

విజ్ఞాన్ విశ్వవిద్యాలయం పదమూడవ స్నాతకోత్సవంలో ముఖ్య అతిథిగా పాల్గొనడానికి నన్ను ఆహ్వానించిన విశ్వవిద్యాలయం యాజమాన్యానికి కృతజ్ఞతలు.

అందరికీ ధన్యవాదాలు

Jai Hind.

* * *

Honoring Graduates *with* a Vision *for* Nation Building

Vignan's University celebrated its 2025 Convocation on 3rd August, honoring 1,191 graduates from online and polytechnic programs. With inspiring addresses by academic leaders and industry achievers, including Chief Guest Dr. Ram Kumar Kakani and Honorary Doctorate awardee Ms. Galla Radha Rani, the event highlighted leadership, innovation, and a call for nation-building. It reinforced the university's vision of preparing responsible professionals for Viksit Bharat @2047.

On 3rd August 2025, Vignan's University celebrated a proud milestone-the 3rd Online Education and 1st Polytechnic Education Convocation Ceremony. A total of 1,191 graduates were honored for their academic achievements, marking an important step in the university's journey of shaping leaders for the future. The event blended tradition with technology, academic excellence with vision, and above all, carried a strong message of nation-building.

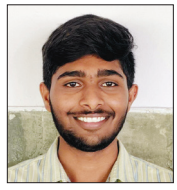
The convocation was graced by the presence of eminent guests. Dr. Ram Kumar Kakani, Former Director of IIM Raipur, attended as the Chief Guest and delivered an inspiring address. He spoke of perseverance, innovation, and leadership, urging graduates to embrace challenges and take responsibility in building a stronger and self-reliant India. His words resonated with the audience, reminding them that education is not just about personal success, but about contributing to society.

A special highlight of the day was the conferring of an Honorary Doctorate on Ms. Galla Radha Rani, Founder of RR Sports, for her outstanding contributions to entrepreneurship, sports promotion, and social service. Her journey stood as a motivating example of courage and determination, showing the graduating students how passion and hard work can make a difference.

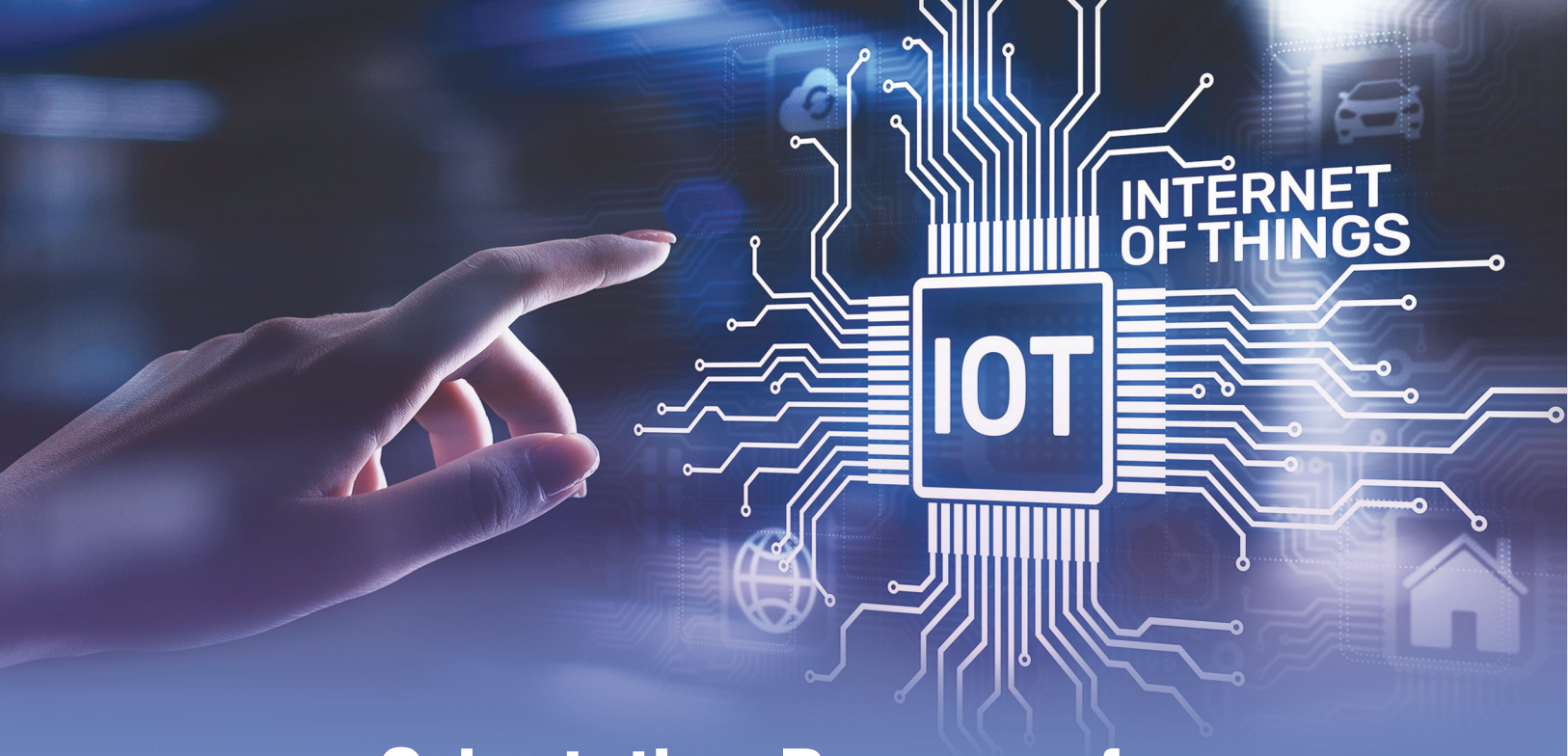
The ceremony also featured thoughtful addresses by Dr. Lavu Rathaiah, Chairman of Vignan Institutions; Lavu Srikrishna Devarayalu, Vice Chairman; and Col. Prof. P. Nagabhushan, Vice Chancellor. Each speaker emphasized the national vision of Viksit Bharat @2047, encouraging graduates to lead with integrity, adopt digital innovation, and use their knowledge to contribute meaningfully to the country's progress. They reminded the students that every achievement is also a responsibility toward society.

Families, faculty, and friends gathered-both in person and virtually-to witness the proud moment as students stepped onto

the convocation stage in their gowns and caps. It was not just a ceremony of certificates, but a celebration of dedication, values, and the promise of a brighter future. The 2025 Convocation reaffirmed Vignan's University's commitment to empowering youth with knowledge, skill, and social responsibility. By honoring its graduates, the institution once again proved its role in preparing leaders who will carry forward India's vision of becoming a developed nation by 2047.



by
B. Naga Chethan Reddy
IV BME



Orientation Program for M.Tech 2025-27 Batch

Vignan's University recently organized the orientation program for the new batch of M.Tech students specializing in the fields of Internet of Things (IoT) and Very Large-Scale Integration (VLSI). The event, held on 28th July 2025, marked the beginning of an exciting academic journey for the incoming students. A total of twenty-five students enrolled in IoT and four students joined VLSI, bringing enthusiasm and diversity to the program. The orientation served as an important platform to introduce students to the university, its academic environment, and the opportunities that lie ahead.

The program began with a warm welcome by Dr. Usha Rani, Dean of the School, who encouraged students to approach their studies with dedication and passion. She reminded them that postgraduate education is not only about classroom learning but also about developing research, problem-solving, and innovation skills. Following her address, Dr. Sarada, Head of the Department, highlighted the growing importance of IoT and VLSI in shaping the future of technology. She explained how IoT is transforming industries through smart devices and automation, while VLSI continues to play a vital role in chip design and semiconductor technology.

The academic roadmap was presented by Dr. P.J. Reginald, the M.Tech Coordinator, who guided students through the structure of the program. He discussed coursework, laboratory sessions, research projects, internships, and industry interactions that would help students gain both technical expertise and practical exposure.

In the afternoon session, the Honorable Vice Chancellor inspired the students with his words on vision, innovation, and perseverance. He emphasized the importance of applying knowledge to solve real-world challenges and motivated students to work with determination toward their goals.

The orientation concluded successfully, leaving students motivated, confident, and eager to begin their academic journey at Vignan's University.

by
G. Srinikhi
III CSE

First-Year Students' Valedictory

I B.Tech Orientation Programme
A Memorable Beginning

The valedictory ceremony of the I B.Tech Orientation Programme 2025 celebrated the talents, reflections, and achievements of first-year students. With cultural performances, mentor recognition, and inspiring reflections, the event closed the orientation week on a high note-marking not just a conclusion, but the beginning of a vibrant academic journey.

The valedictory ceremony of the I B.Tech Orientation Programme was held on 31st July 2025 at the Sangamam Seminar Hall from 1:30 PM to 3:30 PM. The event marked the conclusion of an engaging and transformative week for the new batch, filled with sessions, cultural experiences, and meaningful interactions that introduced them to the spirit of Vignan.

The programme opened with a warm welcome address that set an enthusiastic tone for the afternoon. What followed was a vibrant showcase of cultural performances, highlighting the remarkable talents of the first-year students. Hamsini Lalithya charmed the audience with her melodious singing, while Jahnavi and Thanmai impressed with graceful solo dance performances. The cultural rhythm continued with a soulful rendition by Sushma Sri and a captivating performance by Harisri.

Adding a touch of humour, the Theatre Arts team staged a "Mentor Imitation" skit, which filled the hall with laughter and appreciation.

The energy only grew as Mokshita & team presented a semi-classical dance, followed by a high-energy group performance by Chetna & team. Spirited solos from Sudheep, Abhinav, Sai Sri, and Mohammed Asif kept the excitement alive, while Tejendra Kumar's calming musical interlude brought balance to the vibrant evening. A special highlight was the mentors themselves taking the stage for a lively dance, which drew loud cheers and applause from the students.

Beyond performances, the ceremony also carried a reflective note. Hima Ganesh shared heartfelt insights about the orientation journey, speaking of how it prepared students for the new academic chapter and instilled a sense of belonging. The formal segment followed, with prize distribution recognizing the standout participants of the week, and a mentor certificate ceremony honouring the invaluable contributions of the mentors who guided the newcomers.

The event concluded with a sincere vote of thanks, acknowledging the collective efforts of faculty, mentors, organizers, and students who made the orientation programme a success. More than an ending, the valedictory symbolized a fresh beginning-sending the first-year students forward with inspiration, confidence, and excitement for the road ahead.

by
G. Priyanka
II BI

Faculty Development Program on Sustainable Engineering

VFSTR hosted a one-day Faculty Development Program on "Sustainable Engineering" on 4th August 2025, with nearly 100 faculty participating. Keynote speaker Mr. KP Murthy shared insights on ESG principles, resource management, and bamboo-based innovations. The event strengthened VFSTR's commitment to embedding sustainability in education, research, and real-world applications.

On 4th August 2025, the Centre for Environmental Pollution Control (CEPC), School of Applied Sciences & Humanities (ASH), and Department of Chemistry, in collaboration with the Office of IQAC, organized a one-day Faculty Development Program (FDP) on "Sustainable Engineering" at VFSTR. The initiative aimed to raise awareness among faculty members about embedding sustainable practices in engineering education and research, with a strong focus on ESG (Environmental, Social, and Governance) principles and innovations in sustainable materials.

The session opened with a warm welcome address by Dr. Tejaswani (CEPC), followed by introductory remarks from Prof. M. Ramakrishna, Dean–IQAC, Dr. Jyothi, Deputy Dean–IQAC, and Dr. Shubhalakshmi Sengupta, Coordinator–CEPC. They underlined the institution's commitment to environmentally responsible teaching, innovation, and research, reinforcing VFSTR's role in shaping engineers who can contribute to sustainable futures.

The keynote lecture was delivered by Mr. KP Murthy, a Strategic Consultant, clean technology advocate, and founder of Clean Technology / Sustainability Clubs. Known for bridging industry and academia, Mr. Murthy shared insights on efficient resource management and the DBTR (Design, Build, Test, and Research) framework, which can help integrate sustainability into engineering processes. He addressed the urgent need for a shift from conventional resource-heavy systems dependent on coal, oil, plastic, and steam, towards circular economy models. His engaging talk emphasized how ESG frameworks-environmental, social, and governance pillars-are reshaping industries and academic institutions worldwide. Nearly 100 faculty members attended the program and were captivated by the depth of his ideas.

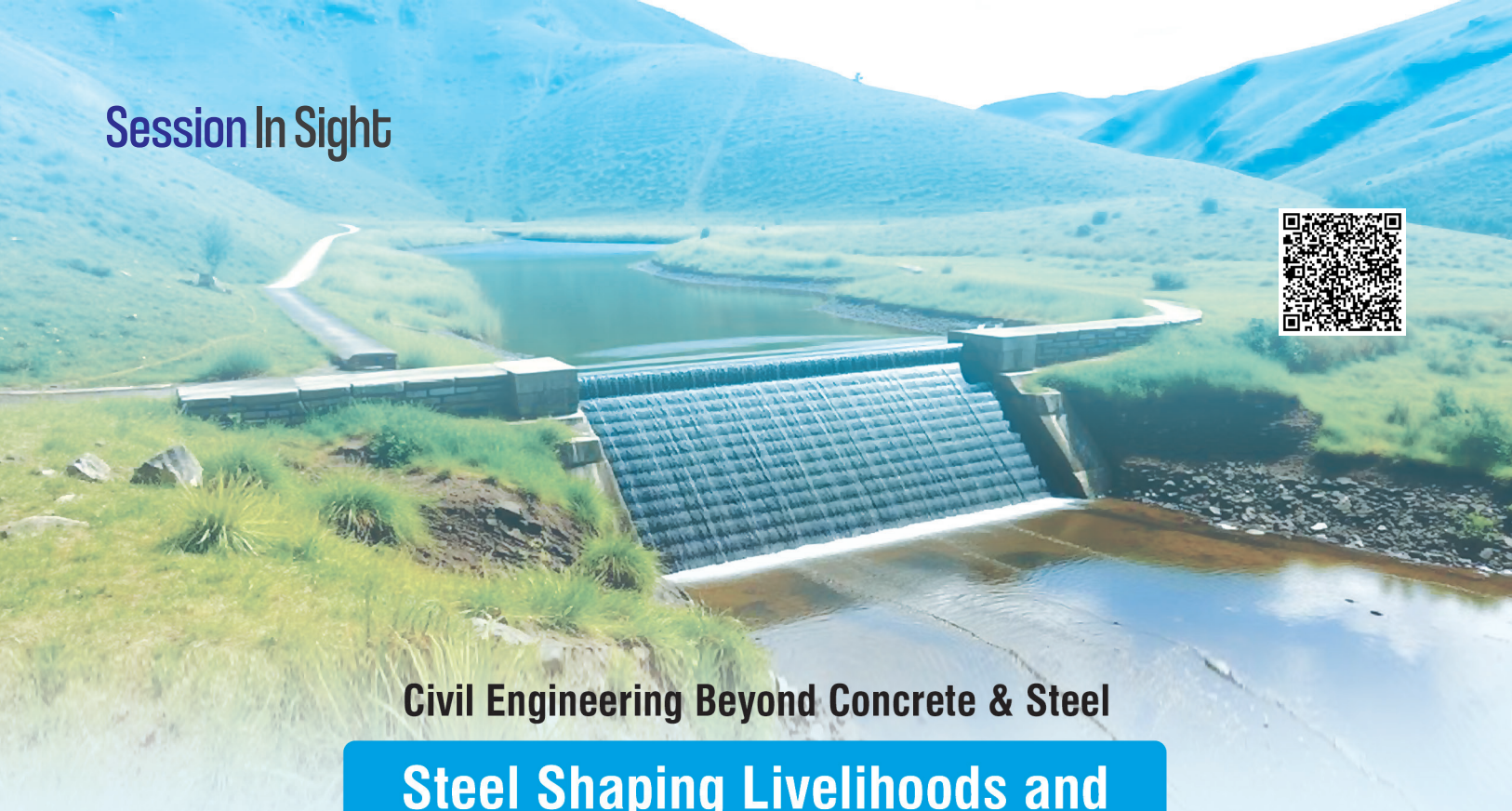
A particularly fascinating part of the lecture focused on sustainable materials, especially bamboo, as a driver of eco-conscious innovation. Mr. Murthy showcased bamboo's versatility in applications ranging from electric bicycles, drones, and pellets to composite materials and green infrastructure. Videos and visuals of bamboo bicycles as an alternative mobility solution left a deep impression on the audience. He explained how bamboo not only acts as a carbon sink but also improves energy efficiency and reduces particulate pollution, making it an ideal material for sustainable engineering.

The session concluded with a lively Q&A segment, where faculty members explored possibilities of adopting these practices in academic projects and research. In response to a query by Prof. Ramakrishna, Mr. Murthy encouraged faculty to pursue collaborative projects and knowledge exchange initiatives focused on sustainability. His answers reflected practical strategies for turning sustainable ideas into real-world outcomes.

The program closed with a heartfelt vote of thanks by Dr. Sengupta, appreciating the speaker's impactful insights, the support of the VFSTR management, the contributions of non-teaching staff, and the active participation of all attendees. A group photograph captured the moment, symbolizing VFSTR's collective commitment to sustainability.

This FDP was not only an academic program but also a meaningful platform for reflection and action. It reinforced VFSTR's dedication to global development goals and highlighted the university's efforts to lead by example in sustainability-driven education and innovation.

by
G. Srinikhi
III CSE



Civil Engineering Beyond Concrete & Steel

Steel Shaping Livelihoods and Landscapes through MGNREGA

The Department of Civil Engineering at Vignan's University organized a guest lecture on "Civil Engineering Beyond Concrete and Steel: Engineering Livelihoods and Landscapes with MGNREGA" on 26th July 2025. Mr. P. Santha Rao, Vigilance Officer at the Office of the Commissioner for Panchayat Raj and Rural Development in the Government of Andhra Pradesh, delivered the talk. With his extensive field experience, Mr. Rao encouraged students to see civil engineering from a wider perspective, looking beyond traditional urban infrastructure.

He explained how engineers greatly influence rural landscapes through projects under the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). Unlike skyscrapers and highways, these projects emphasize sustainable development and community well-being. Structures like check dams, farm ponds, earthen roads, soak pits, and rainwater harvesting systems help save natural resources, support farming, and provide job opportunities for rural families.

Mr. Rao supported his presentation with real-life case studies from villages in Andhra Pradesh, showing how projects like watershed management and soil conservation have changed communities. He emphasized the importance of using local materials, affordable solutions, and community involvement, which promote inclusivity and long-lasting success. His examples showed how civil engineering, when combined with rural development, can create both ecological balance and social progress.

The session was highly interactive, with students inquiring about field challenges, cost control, and career opportunities in public projects. Over 70 students and 7 faculty members participated, and the lecture made a lasting impact. It ended with the message that civil engineers are not just builders of infrastructure; they are also partners in sustainable growth and nation-building.

by
A. Rishitha
III CSE

Design, Simulation and Optimization

Role of CAE in Industry 4.0

The Department of Mechanical Engineering recently organized a guest lecture on Role of CAE in industry 4.0:Design, Simulation and Optimization, delivered by Mr. Srihari Subrahmanian. The session provided valuable insights into how Computer-Aided Engineering (CAE) is reshaping product development in the era of digital transformation. Mr. Srihari emphasized that CAE enables virtual testing and optimization of products before physical prototypes are built, thereby accelerating innovation, reducing production costs, and shortening development cycles.

The lecture highlighted the integration of advanced simulation tools with design processes, enabling industries to create reliable and efficient products faster. By leveraging technologies such as Finite Element Method (FEM), Computational Fluid Dynamics (CFD), and AI-driven simulations, engineers can predict performance, identify failures, and optimize designs in a cost-effective manner. This digital-first approach reflects the core principles of Industry 4.0, where smart factories and digital twins are becoming the norm. Students were also introduced to emerging domains such as Robotics and Autonomous Systems, including industrial robots, mobile robots, and AI-driven automation. The discussion extended to Composites and Smart Materials, focusing on lightweight, self-healing, and nanomaterials that are shaping next-generation engineering solutions. Additionally, advancements in Additive Manufacturing, CNC automation, and IoT-enabled production systems were presented as key enablers of modern manufacturing. The event was conducted in the department's state-of-the-art smart lecture halls and labs, which provide the ideal environment for blending academic learning with practical exposure. Overall, the session proved to be highly engaging and inspiring, offering students a glimpse into how CAE and Industry 4.0 are transforming the future of engineering and innovation.

by
K.Trisha Sri
III CSE

The Molecular Logic of Life

VFSTR had the privilege of hosting a distinguished guest lecture by Dr. S. Vijaya Saradhi, Professor of Applied Biology at the University of Technology and Applied Sciences, Muscat, Sultanate of Oman, on 25th July 2025. The session, titled "The Molecular Logic of Life: A Journey through Biochemistry", provided students and faculty with a rare opportunity to explore the fascinating world of Biochemistry from a global expert.

Dr. Saradhi delivered an insightful talk that delved into the chemical basis of life, emphasizing how biomolecules form the foundation of biological systems. He explained in detail the structure and function of key biomolecules such as proteins, nucleic acids, carbohydrates, and lipids, highlighting their critical roles in sustaining life processes. With clarity and depth, he connected molecular mechanisms to broader applications, making the subject both accessible and inspiring for students. The lecture also explored the practical applications of biochemistry across diverse fields. In medicine, Dr. Saradhi discussed how understanding molecular interactions aids in drug discovery and disease management. In agriculture, he shed light on the role of biochemistry in crop improvement, stress tolerance, and sustainable farming practices. Similarly, in the fields of nutrition and biotechnology, he outlined how biochemical research contributes to advancements such as nutraceuticals, genetic engineering, and industrial applications.

Students found the session highly enriching, as it broadened their perspective on the relevance of biochemistry beyond the classroom. Dr. Saradhi's engaging style and real-world examples made complex concepts easier to understand, while also sparking curiosity about research opportunities in the life sciences.

The lecture concluded with an interactive session, where students posed thoughtful questions, receiving valuable guidance from the professor. Overall, the event was a memorable academic experience that deepened knowledge and inspired future learning.

by
M. Ramya Sri
II AI&ML

Stepping into the Future

Vignan's University organized a five-day AICTE-supported FDP on Innovation and Entrepreneurship, engaging over 60 faculty members in topics like design thinking, IPR, and startup strategies. With expert-led sessions and hands-on workshops, the program encouraged educators to integrate innovation and entrepreneurial thinking into teaching, reinforcing Vignan's focus on future-ready education.

Vignan's University recently conducted a five-day Faculty Development Program (FDP) on Innovation and Entrepreneurship, supported by the All India Council for Technical Education (AICTE) and the Ministry of Education's Innovation Cell. The program was designed to strengthen faculty capabilities in fostering innovation, entrepreneurial skills, and a startup-driven mindset among students, a need that is becoming increasingly critical in today's fast-changing world.

The FDP brought together more than 60 faculty members from institutions across Andhra Pradesh and Telangana. Over the course of five days, they explored a wide spectrum of topics, including creativity and design thinking, intellectual property rights (IPR), and effective startup strategies. The sessions created an engaging platform for knowledge exchange, encouraging participants to think about how education can be reimagined to nurture student innovators and future entrepreneurs.

Guiding the sessions were distinguished experts, Dr. B. S. Ramakrishna and Dr. Ravi Chandra Raju, who combined theory with practice through thought-provoking lectures and interactive demonstrations. They emphasized interdisciplinary learning and the importance of encouraging students to think differently, generate new ideas, and solve problems creatively. Their focus on experiential learning methods encouraged faculty to bring real-world perspectives into classrooms.

One of the most impactful aspects of the program was a hands-on workshop that simulated the challenges faced by startups. Faculty members collaborated in teams to brainstorm solutions, make strategic decisions, and present innovative ideas, gaining first-hand experience of entrepreneurial thinking. The activity underscored the importance of balancing creativity with feasibility, a skill essential for both educators and students.

The program concluded with a strong message: the role of faculty is not just to teach, but to inspire. Integrating entrepreneurial thinking into academic practices will prepare students to be job creators, not just job seekers. This FDP served as a reminder of Vignan's University's commitment to building an ecosystem of innovation, collaboration, and academic excellence.

by
G. Srinikhi
III CSE

From Classrooms to Real-World Challenges

Our Internship Experience at IIIT Allahabad

We, the students of 3rd and 4th year Cybersecurity, had the remarkable opportunity to undergo a two-month internship program at the prestigious Indian Institute of Information Technology (IIIT) Allahabad. This internship was not just a training period, it was a journey where we connected our classroom learning with real-world cybersecurity practices, gaining both technical skills and life lessons.

One of the major areas we worked on was IoT Security, a rapidly growing domain with billions of connected devices worldwide. We learned how attackers exploit weaknesses in IoT ecosystems and actively discovered vulnerabilities in IoT devices using tools like Nmap and Wireshark. Our team analysed flaws such as weak authentication, insecure firmware updates, and unencrypted communications. This hands-on experience gave us a practical understanding of the security challenges faced in IoT environments.

We also explored Mobile Forensics, where we not only learned how to extract and analyse data from mobile devices using Autopsy and FTK but also contributed to developing a mobile forensic application. This project allowed us to understand the process of retrieving deleted files, hidden apps, and encrypted logs skills that are vital in cybercrime investigations. In addition, we studied Network Security, where we experimented with port scanning using Nmap, honeypots, and deception-based strategies. By simulating attacker behaviour, we understood how open ports can be exploited and how defenders can mislead intruders using intelligent countermeasures. We also used Burp Suite to analyse web application vulnerabilities.

This internship was not limited to technical growth it also shaped us personally. We learned teamwork, time management, problem-solving, and the importance of adapting quickly to challenges. Living and working at IIIT Allahabad also taught us independence, discipline, and collaboration.

For all of us, this internship was a great opportunity and a life changing experience. It motivated us to pursue cybersecurity research more seriously, take up advanced certifications, and prepare ourselves for impactful careers. More than anything, it reminded us that cybersecurity is not only about securing systems but also about responsibility, persistence, and continuous learning.

We return from IIIT Allahabad with not just enhanced technical knowledge, but also with confidence, inspiration, and life lessons that will guide us in the years ahead both as cybersecurity professionals and as individuals.

by
Jahnavi Kamepalli
III CSE-CS

Global Research Exchange Program

A Visiting International Students from UMK Malaysia completed their Research Internship at VFSTR, focusing on environmental microbiology and sustainable solutions. The experience combined advanced lab work with rich cultural immersion, highlighting the power of collaboration and education in solving real-world problems.

During my time at Vignan's Foundation for Science, Technology & Research (Deemed to be University), I was fortunate to take part in a hands-on research project that deepened my understanding of environmental microbiology while also giving me a glimpse into the world of global academic collaboration. Through an international internship facilitated by Universiti Malaysia Kelantan (UMK), I not only engaged in advanced scientific research but also immersed myself in a new cultural environment, which broadened both my academic knowledge and personal perspective.

Guided by Prof. Vijaya Ramu Dirisala, Dr. Vallaya Chary, and Ms. Koduru Neeraja Sruthi (Ph.D. scholar), I, along with Anis Syafiqah Binti Muzamil Basri, embarked on a project titled *"Identification, Isolation, and Characterization of Bacteria from Domestic Drainage Canal Water."*

The study focused on exploring microbial populations present in urban drainage water-organisms that are often overlooked but provide critical insights into pollution levels and the effectiveness of wastewater management strategies.

This research was particularly meaningful because of its direct relevance to public and environmental health. Studying bacteria from drainage canals helps us assess the ecological health of water bodies and supports efforts in pollution monitoring. The findings also contribute to the development of sustainable wastewater treatment technologies, an area of growing importance in today's rapidly urbanizing world.

The laboratory work was both challenging and rewarding. We carried out biochemical tests, microscopy, and UV-Vis spectrophotometric analysis to examine bacterial properties and behavior. We also had the chance to work on silver nanoparticle synthesis and explore their antibacterial potential. In addition, we performed DNA and plasmid isolation, followed by agarose gel electrophoresis

for molecular identification. Each experiment was a learning experience that demanded patience, precision, and critical thinking-qualities essential for advanced research.

Alongside my project, seven other UMK students undertook independent research at VFSTR. While Anis and I studied environmental microbiology, Yuvannes Kalai Selvam explored smart agriculture through sensor-based drip irrigation and mulching for baby corn cultivation. Nur Amelanie Binti Mohd Kamarul Zaman worked on microgreens and value-chain development in agribusiness. Nor Anis Arissa Binti Ismail and Hannah Hadirah Binti Ali developed biodegradable packaging from ice apple shells and bottle gourd seeds, tackling the global challenge of plastic pollution. Farah Hana Binti Fauzi and Noor Ariffah Binti Zulkipli researched biotechnology and waste valorization by extracting collagen from fish by-products, while Ms. Bavithrashini Arumugam studied integrated disease management in floriculture. Each project reflected how science and innovation can be applied to address real-world problems.

Beyond the laboratory, our stay in India became a cultural immersion that enriched our experience in unexpected ways. From temple visits and food tours to casual evening conversations over chai, we experienced the rhythm and warmth of Indian life. We learned about the diversity of languages, regional cuisines, attire, and traditions, while also discovering how much we share as students and individuals despite coming from different countries.

The hospitality and inclusiveness of VFSTR left a lasting impression. Faculty, staff, and fellow students made us feel at home from the very beginning, supporting us in every step of our journey. Their kindness reflected the spirit of global friendship and collaboration that academic exchanges are meant to foster.

Personally, this journey was transformative. Adapting to a new country, a different academic structure, and unfamiliar routines pushed us out of our comfort zones and taught us independence, resilience, and confidence. From navigating transport systems to adjusting to new foods and working in advanced labs, every challenge became an opportunity to grow. Most importantly, we gained a stronger sense of global responsibility-to apply what we learn not just for personal success, but for the greater good of society and the environment.

This opportunity was made possible through the guidance of Dr. Suniza Anis binti Mohd Sukri, mobility coordinator at UMK, whose efforts brought the exchange program to life. I am also deeply grateful to Prof. Vijaya Ramu Dirisala, former Dean of Promotion, Collaborations & Faculty Affairs (PCF) and current Dean of Academics, Assessment and Awards (AAA&FA) and the School of Biotechnology & Pharmaceutical Sciences, VFSTR, whose vision for international collaboration has created such life-changing opportunities. Looking back, this experience was more than just a research assignment-it was a milestone in my academic journey. It gave me confidence in my abilities, exposed me to the realities of scientific inquiry, and strengthened my determination to pursue research that addresses global challenges. I sincerely hope that this exchange program continues to flourish, opening doors for many more students to experience the power of education blended with cultural exchange and mutual respect.

by
Ms. Nurul Fadillah
Binti Nahrul Shazwan
Biotechnology

Proving that Dreams have No Limits

Shaik Kabsha Ansariya

SUCCESS STORY

"Living the life we once dreamed of is the greatest blessing." For me, this blessing has turned into reality. I am Shaik Kabsha Ansariya, a final-year B.Tech CSE - Artificial Intelligence and Machine Learning student at Vignan's University, and my journey from a small-town dreamer to securing a 29 LPA package at Amazon as a Quality Assurance Engineer has been nothing short of incredible.

I was born and raised in Chilakaluripet, Palnadu district, Andhra Pradesh, where my father, a teacher, and my mother, a homemaker, raised their two daughters with a powerful belief: **"Girls are never less than boys."** Instead of placing restrictions, my parents gave me freedom and encouragement, teaching me that true strength comes not from comparison but from chasing one's own potential. That support became the foundation of everything I have achieved.

Academically, I always aimed high-scoring 10/10 GPA in Class 10, 985/1000 in Intermediate, and 9.29 CGPA in B.Tech. But my path was not without challenges. I was a JEE dropper, and when I secured an EAMCET rank of 30,356, I questioned my worth. But setbacks didn't define me; I chose to rise with double the energy. **Hard days exist, but what matters is how we bounce back.** My turning point came in my second year, when I discovered my love for coding. What started as practice soon grew into passion, and that passion gave me the courage to aim higher. With consistency and hard work, I earned an internship at Amazon-a milestone filled with excitement and nervousness. Holding onto my mantra, **"If you want something you never had, do something you never did,"** I gave my best every single day.

Those six months became life-changing, teaching me curiosity, ownership, and humility. Eventually, my dream turned into destiny-Amazon offered me a full-time role. Along the way, VFSTR recognized my efforts too, honouring me with the **Best Outgoing Student Award** from the AIML branch and the **Academic Excellence Award** as branch topper.

I owe this journey to my parents' encouragement, my friends' support, and the nurturing environment at Vignan's University, especially its resources and library that shaped my growth.

My story is proof that no background is too small, no dream too big, and no challenge too strong when passion meets persistence. I want every student to believe: **it doesn't matter where you come from-what matters is how far you are willing to go.**

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

VFSTR Faculty Secures

Prestigious Grant for Breakthrough Research on Tropical Disease

Dr. Mamilla R. Charan Raja, Assistant Professor at VFSTR, has received ₹58.27 lakh under the Prime Minister's Early Career Research Grant to study papaya seed compounds against the deadly Leishmania donovani parasite. This research could lead to affordable and safer treatments for a neglected tropical disease.

VFSTR (Deemed to be University) is proud to announce that Dr. Mamilla R. Charan Raja, Assistant Professor in the Department of Biotechnology, has been awarded a highly prestigious Prime Minister's Early Career Research Grant by the Anusandhan National Research Foundation (ANRF). The project has been sanctioned a funding of ₹58.27 lakh and will run for three years (2025–2028).

The research focuses on Visceral Leishmaniasis, a serious and often fatal disease caused by the parasite Leishmania donovani. Though less known to the public, it remains a major health challenge worldwide, with nearly 30,000 new cases reported each year and around one billion people living in regions at risk. Current treatments are costly, have toxic side effects, and are losing effectiveness due to drug resistance.

To address this, Dr. Charan Raja and his team will explore an unusual but promising source - the seeds of the papaya (Carica papaya) plant. Papaya seeds are rich in natural compounds that have traditionally been used to fight infections, but their potential against this deadly parasite has not been fully studied.

The project aims to extract and study these compounds to see how well they can stop the parasite in its different life stages. The team will also try to understand how the compounds work inside the body, how they affect the immune system, and whether they can be developed into effective treatments. To test this, experiments will be carried out first in the lab and later in animal models to confirm their safety and effectiveness.

This research combines traditional knowledge with modern science, using advanced tools like spectroscopy, molecular analysis, and immune studies to uncover new solutions. If successful, it could open the door to affordable, plant-based medicines to fight diseases that currently lack safe and effective options.

Dr. Charan Raja's achievement is a proud moment for VFSTR and a reminder of how research and innovation can create real-world impact.

సాక్షి

విజ్ఞాన్ వర్సిటీకి రూ.58.27 లక్షల ప్రాజెక్ట్

చేబ్రోలు: చేబ్రోలు మండలం వడ్లమూడి విజ్ఞాన్ యూనివర్సిటీలోని డిపార్ట్‌మెంట్ ఆఫ్ బయోటెక్నాలజీ విభాగానికి చెందిన అసిస్టెంట్ ప్రొఫెసర్ ఎం.ఆర్. చరణ్ రాజకు ఢిల్లీలోని ఏఎన్ఆర్ఎఫ్- పీఎంఈసీఆర్‌జీ (అనుసంధాన్ నేషనల్ రీసెర్చ్ ఫౌండేషన్ - ప్రైమ్ మినిస్టర్స్ ఎర్లీ కెరియర్ రీసెర్చ్ గ్రాంట్) నుంచి రూ.58.27 లక్షల విలువ గల ప్రాజెక్టు మంజూరైందని వైస్ చాన్స్‌లర్ పి.నాగభూషణ్ గురువారం తెలిపారు. పరిశోధనకుగాను రాబోయే 3 సంవత్సరాలకు ప్రాజెక్ట్ గ్రాంటు మంజూరైందన్నారు. ఎం.ఆర్. చరణ్ రాజును విజ్ఞాన్ విద్యాసంస్థల చైర్మన్ లావు రత్తయ్య, రిజిస్ట్రార్ పీఎంవీ రావు, డీన్లు తదితరులు అభినందించారు.

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Source : https://epaper.sakshi.com/

FIP @ Plumsoft Solutions

As part of the Faculty Industry Immersion Program (FIP), I had the privilege of undergoing industry training at Plumsoft Solutions Private Limited, an experience that proved both enriching and transformative. This opportunity allowed me to step beyond the classroom and into the fast-paced world of modern technology, where I worked closely with expert teams on projects involving Large Language Models (LLMs), AI-based system integration, and real-time API development.

The training provided a firsthand look at how advanced AI technologies are being applied across industries to automate workflows, improve decision-making, and enhance user engagement. Far from being a theoretical exercise, this was an immersive experience where I actively contributed to the design and development of intelligent systems powered by LLMs. My work involved prompt engineering, fine-tuning models for domain-specific requirements, and evaluating performance across diverse NLP use cases. Each task offered a deeper appreciation of the complexity and potential of language-based AI systems.

Another major focus of my training was on AI integration strategies, where I worked on embedding smart automation features into enterprise applications. This meant understanding how to align business needs with technical solutions, ensuring that AI capabilities could genuinely add value to organizational processes. Alongside this, I gained practical experience in building and testing RESTful APIs, which enabled different AI modules to interact seamlessly with frontend applications-an essential step in delivering smooth and responsive user experiences.

Takeways

- Through the Faculty Industry Immersion Program at Plumsoft Solutions, I gained hands-on experience with LLMs, AI integration, and real-time APIs, translating industry practices into academic learning.
- This experience bridged the gap between theory and practice, enriching classroom teaching and student projects while fostering a stronger culture of innovation and industry readiness.

What made this program especially meaningful was the way it helped me bridge the gap between academic learning and real-world industry requirements. The insights gained are already being carried into my classroom teaching, shaping curriculum updates, and inspiring innovative student projects. By experiencing industry challenges firsthand, I am now better equipped to guide students toward industry readiness, ensuring they understand not just theoretical concepts but also their practical applications.

Overall, the Faculty Industry Immersion Program at Plumsoft Solutions was more than just professional training-it was a journey of growth, innovation, and renewed purpose. It strengthened my technical expertise while also broadening my vision of how educators can prepare the next generation of engineers to thrive in a rapidly evolving technological landscape.

by Dr. Deepak Chowdary Edara
Sr. Asst. Professor, CSE, SoCI

MoU *with* Ananth Technologies Limited

Vignan's Foundation for Science, Technology & Research (VFSTR) has taken a remarkable step towards fostering innovation and excellence by signing a Memorandum of Understanding (MoU) with Ananth Technologies Limited (ATL). This strategic collaboration marks a significant milestone in bridging academic expertise with cutting-edge industry practices, thereby creating new opportunities for students, faculty, and professionals alike.

The partnership focuses on multiple areas of growth, including advanced research, joint innovation, student internships, and placements. Through this MoU, students will gain exposure to real-world challenges while working closely with industry experts, preparing them for successful careers in aerospace, defence, and other emerging technology sectors. Additionally, curriculum enrichment through expert lectures and faculty immersion programs will ensure that the academic community remains aligned with the latest technological advancements.

Another vital outcome of this collaboration is the establishment of strong infrastructure support, laboratories, and Centres of Excellence that encourage experimentation and innovation. Faculty and students will benefit from hands-on learning experiences, while ATL professionals will also gain opportunities for research and academic engagement.Moreover, this initiative extends its support to national missions such as Atmanirbhar Bharat and Viksit Bharat, promoting self-reliance and technological progress in India.

Together, VFSTR and ATL aim to nurture the next generation of scientists, engineers, and innovators by fostering an ecosystem that blends academic rigor with industrial expertise. This collaboration is not only a step towards academic excellence but also a vision to make India self-reliant in high-end technology through meaningful partnerships and shared goals.

Such initiatives highlight the importance of industry-academia synergy in driving innovation, shaping skilled professionals, and contributing to national growth in a rapidly evolving global landscape.

Voices from the Field: Industry Testimonials:

The Faculty Immersion Programme is undoubtedly an excellent initiative; it is also a necessary one because, apart from the very apparent returns in terms of the practical insights that enable faculty's ability to prepare students for future careers, for academic research programmes, interdisciplinary perspectives and so on, it will serve as an invaluable instrument for faculty to relate the curriculum they teach to the industry standards & the state-of-the-art advances in the application industries and more importantly, to help develop and steer the curriculum in keeping with the changing trends in technologies and applications, thereby keeping the college/university in step with industry. This will also enable and empower the faculty to funnel into the Centre of Excellence the specific band of areas of knowledge to build on.

– Vidyasagar. D
Managing Director, SEC Industries Private Limited

"Such programs are necessary going forward to ensure that curriculum meets industry requirements".

– Rajesh Ayyappasur
Head, Decentralized Systems & Tech Package,gps renewables, Banglore.

"Excellent initiative - trying to bridge the Gap between Industry and Academia with a practical and simple approach. The, while getting a taste of industry working, can transfer the experience to the students, so that the students are more ready for the industry.".

– S. V. Ramanamurthy
Director, Vardaan Data Sciences Pvt. Ltd.

by
T. Devendar Raju
II AIML

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

RSA Algorithm - Mathematically

Yes, asymmetric cryptography is a branch of cryptography where a secret key can be divided into two parts, a public key and private key. The public key can give anyone, (trusted or not), while the private key must be kept secret that is in owner.

Encryption with asymmetric cryptography works in a slightly different way from symmetric encryption. Someone with the public key is able to encrypt a message, providing confidentiality, and then only the person in possession of the private key is able to decrypt it. In the process of encryption and decryption some of the algorithms are used .These algorithms are called Asymmetric encryption algorithms and also known as public key cryptography algorithms.

Some popular asymmetric cryptography algorithms are RSA (Rivest -Shamir- Adleman), Diffie-Hellman, ECC (Elliptic Curve Cryptography) and the Digital signature Algorithm (DSA).Data encrypted with a public key can only be decrypted by its corresponding private key, ensuring that only the intended recipient can access the information.

Here **RSA Algorithm** process is given below:

The process of Asymmetric algorithm work like this : **Mainly 4 steps**

1. Key Generation

Mathematically linked keys are generated : a public key and a private key.

2. Key Distribution

The public key can be freely shared with anyone .while the private key is kept secret by its owner.

3. Encryption

To send a secure message (cipher text message), the sender encrypts the data using the recipient's public key.

4. Decryption

The encrypted data (ciphertext) can be decrypted only by the holder of the corresponding private key.

Example of RSA Algorithm mathematically : Generally RSA prefer only two large prime numbers. Here I prefer small numbers for better understanding.

Step-1: Key generation

a) pick any two prime numbers :

p=3 and q=11

b) compute :

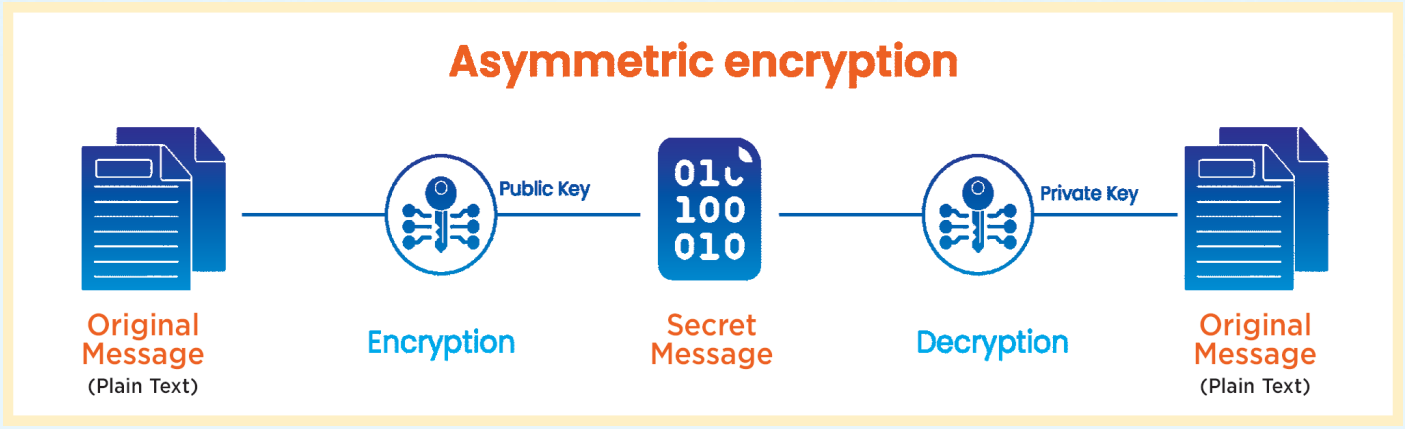
$n= p \times q=3 \times 11=33$

c) Compute Euler's totient :

$\Phi (n)=(p-1)(q-1)=2 \times 10 =20$

d) choose a public exponent e:

Let's take e=3 (since gcd(3,20)=1)
(gcd-Greatest Common Devisor)



e) Find private exponent d:

We need $d \times e \equiv 1 \pmod{20}$

$d \times 3 \equiv 1 \pmod{20}$

$\Rightarrow d = 7$ [because $7 \times 3 = 21 \equiv 1 \bmod(20)$]

Step-2: Key distribution :

We have two keys

a) public key = (e,n)=(3,33).

b) private key = (d,n)=(7,33)

Step-3 : Encryption

suppose original message is M=4

Encryption formula is :

$C = M^e \bmod n$ (C is cipher text)

$C = 4^3 \bmod 33$

$=64 \bmod 33$

$=31$

Therefore encrypted message is =31 (this is cipher text message)

Step-4 : Decryption

Decryption formula : $M = C^d \bmod n$

$M = 31^7 \bmod 33$.....(1)

Let us see calculation : [$31 \equiv -2 \pmod{33}$

$(-2)^7 = -128$] ..... (2)

$M = -128 \bmod 33$ [substitute eq (2) in eq (1)]

= 4 (original message)

These are the main four steps in RSA Asymmetric encryption algorithm.

Conclusion : RSA, it was the first practical public- key (Asymmetric) cryptography algorithm. RSA algorithm requires two large prime numbers. Public key[any one can use] is encryption of the message and private key[only the ownar can use] is decryption of the message. Here the key size is large and the encryption and decryption logical steps are important. To minimize key size, another Algorithm are like ECC are preferable.

mathematically continues....

by
Anitha Jyothi Ramasani
Ph. D Scholar, Mathematics

ACSE Faculty Excels in Cyber Defence with BTL1 Certification

Mr. Sai Krishna Teki, Assistant Professor in the Department of Advanced Computer Science and Engineering (ACSE), has successfully earned the prestigious Blue Team Level 1 (BTL1) certification. This intensive 24-hour hands-on assessment evaluates expertise in phishing analysis, threat intelligence, digital forensics, SIEM operations, and incident response. His achievement reflects strong proficiency in detecting, analyzing, and mitigating cyberattacks, while demonstrating a deep commitment to robust defensive security practices. By mastering these critical domains, he not only advances his professional growth but also strengthens the department's overall capabilities. The dean, head of department, deputy head, and fellow faculty members extended their appreciation and congratulated him on this remarkable accomplishment, which stands as an inspiration to both colleagues and students.

by
Mr. Sai Krishna Teki
Asst. Prof., ACSE

The Rise of Artificial Intelligence Why Data Alone Isn't Enough

Who is Charan's Father? Please explicate (Charan's father reminds us that *emotion, intuition, and memory* are data too but they're delicate, often hidden, and deeply personal.)

If GenAI is to become a truly empathetic guide in education and life, it must be rooted in the spirit of Open Science: not just open access, but open hearts and minds.

Open Access refers to the unrestricted online availability of research outputs, such as journal articles or datasets, allowing anyone to read, download, and use them freely. In contrast, Open Science is a broader, more comprehensive movement that encompasses not only open access to publications but also transparent sharing of research methodologies, data, software, peer reviews, and workflows. While Open Access enables consumption of knowledge, Open Science empowers deeper understanding, collaboration, and reproducibility, ensuring the entire research process is visible, verifiable, and reusable for scientific and societal advancement.

The distinction between Open Access and Open Science can be vividly illustrated through the analogy of owning a car. Open Access refers to the ability to freely use a resource, much like driving a car. You can steer, accelerate, and brake, enjoying the car's functionality without needing to understand its internal workings. In contrast, Open Science delves deeper, providing transparency into the car's creation process, revealing the materials used, the tools and machinery involved, the software and robotics employed, the workforce behind it, and even the thought processes guiding its design and production. While Open Access may suffice for everyday car use, Open Science is indispensable in fields like healthcare. Here, knowing the composition of a medication or the intricacies of a surgical procedure is crucial for critically analyzing outcomes, particularly when something goes wrong post-treatment. This transparency fosters accountability and improvement. Similarly, for artificial intelligence (AI) to deliver accurate and reliable predictions, training on Open Access data alone, equivalent to driving the car without understanding its construction, is inadequate. AI requires an Open Science approach, with full access to the methodologies, datasets, algorithms, and reasoning processes underpinning the data. By training on such a platform, AI can critically analyze, learn, and predict with greater precision, paving the way for trustworthy and innovative advancements in a transparent and reproducible manner.

> AI Is Not Just a Course, It's a Commitment:

Before we get swept away by the excitement surrounding Artificial Intelligence, it's essential to pause and ask: What is Generative Artificial Intelligence (GenAI), and why does it matter to a common man?

GenAI refers to advanced systems like ChatGPT, Gemini, and others that can produce text, images, code, or even videos by learning patterns from vast amounts of existing data. It's no longer just a futuristic tool used only in high-tech labs or academic papers. Today, GenAI is writing emails, summarizing news, translating languages, assisting teachers in classrooms, helping doctors with documentation, and even aiding farmers through smart advisory apps. In short, it's quietly becoming part of our daily lives both visible and invisible.

Yet, amid this surge in technological capability, we must remember something profoundly human: **The power to reason, imagine, and ethically decide lies not in machines but in minds. The ability to decide with empathy is a uniquely human gift.** Machines can mimic creativity, but they don't *understand*. So, while GenAI may assist, amplify, and accelerate tasks, it must be guided and governed by thoughtful individuals who understand not just how to use it, but when not to. It's our responsibility to guide this technology to ensure it remains a tool and not a master.

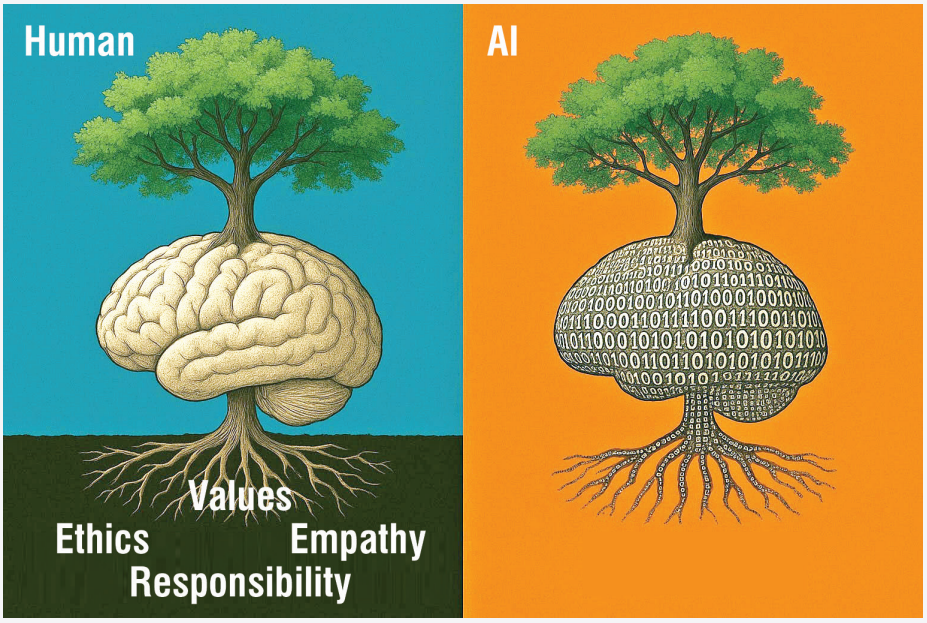
This is precisely where **Open Science** enters the picture. Open Science is a global movement that aims to make scientific knowledge freely accessible, transparent, and inclusive to all, not just academics. Thanks to Open Science:

- **Farmers** can access climate models and irrigation techniques published in open-access journals to improve yield without costly consulting.
- **School children** can explore simulations and citizen-science projects, helping them understand biology, astronomy, and even genomics from their homes.
- **Patients and doctors** can read plain-language summaries of medical research to make more informed health decisions.
- **Policymakers** and activists can use curated open datasets to craft evidence-based policies on air pollution, biodiversity, or rural education.

But here's the magic: GenAI amplifies the value of Open Science. By summarizing papers, generating multilingual explanations, and offering interactive dialogue, GenAI turns vast scientific repositories into *living* resources accessible to every curious mind.

Imagine a rural student asking a GenAI tool, "What causes monsoon floods?" and getting not just an answer, but a map, a summary of recent open-access studies, and suggestions for school projects - all instantly. That's the democratization of knowledge. That's Open Science empowered by GenAI.

> The Future Needs You: Why GenAI Demands Ethical Minds, Not Just Fast Ones



In an era where Generative AI (GenAI) is becoming inseparable from the everyday conduct of science, students must no longer view themselves as mere participants in a technological wave, but as curators of humanity's evolving intellectual legacy. As *Hosseini et al.* (Northwestern University, Chicago, 2023) critically explore in their landmark article, Open Science is far more than a repository or set of policies: it is a transformative ethos built upon transparency, equity, collaboration, and accessibility. Students pursuing engineering, technology, and science disciplines are uniquely positioned to champion this paradigm provided they recognize its ethical and societal gravity. If future technologists fail to prioritize Open Science, GenAI's deployment will be driven not by values but by velocity, accelerating efficiency while potentially undermining truth, justice, and shared benefit.

It is abundantly clear that GenAI can amplify the virtues of Open Science. GenAI has the remarkable ability to digest complex research papers for policymakers, translate scientific findings across languages, and enable citizens to engage meaningfully with academic research. These capabilities, when combined with Open Science, create a powerful ecosystem for democratizing knowledge. However, this synergy is delicate. If students build or use GenAI tools without fully grasping the essential role Open Science plays in ensuring transparency, inclusivity, and reproducibility they may inadvertently weaken public trust in scientific knowledge itself. The risk isn't merely technical; it's societal. When opaque algorithms generate seemingly authoritative outputs without traceable or verifiable sources, they threaten the credibility of science and the very integrity of informed decision-making. Already, the paper warns of synthetic datasets masquerading as truth, hallucinated summaries shaping misinformed opinions, and academic predation through mass-generated fake papers all possible when GenAI is divorced from the rigor and openness that science demands. This is where students matter most: by learning to critically assess sources, cite transparently, and demand model accountability, they become defenders not just of data accuracy, but of scientific democracy.

Socially, students who respect Open Science are better equipped to respond to the nuanced realities of a world grappling with misinformation, climate crises, and health disparities. As GenAI spreads through public health, environmental modeling, and citizen science, students must recognize that every model, prompt, and output carries consequences not only technical, but human. If GenAI systems are trained on biased, closed, or low-quality data, their recommendations on topics like biodiversity conservation or disease outbreak response could be dangerously misaligned with lived realities. A generation of engineers and AI designers grounded in Open Science values is vital to ensure systems remain ethical, reliable, and truly representative of diverse knowledge systems.

The article's emphasis on epistemic diversity is crucial: without Open Science, GenAI models may reflect global hegemonies favoring dominant languages, Western paradigms, or privileged data sources while marginalizing indigenous perspectives or grassroots innovation. Students who embrace Open Science can reverse this trend, intentionally integrating multilingual datasets, fair attribution practices, and context-rich explanations into the AI tools they build. This is not just academic diligence; it's ecological justice, cultural sovereignty, and social accountability. Nature itself, with its complex, interlinked systems, suffers when knowledge is siloed. Open ecological data enables shared stewardship, but only if GenAI systems process it responsibly. Students must make that link.

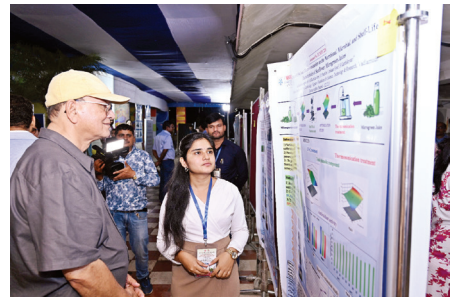
Ultimately, *Hosseini et al.* compel a hard truth: if GenAI thrives in closed ecosystems, it doesn't just risk technical failure - it corrodes the communal nature of knowledge. And the antidote is clear: students, the custodians of tomorrow's algorithms, must weave Open Science into every layer of their training, tools, and thinking. Only then can GenAI evolve into a force that enlightens rather than distorts, that empowers rather than erases.

by
Mr. L. Srinivasa Raju
Cancer Research

Research Excellence in Food Science

VFSTR Stands out at FCMFPE WellH 2025

VFSTR's Food Technology scholars and faculty left a strong mark at FCMFPE WellH 2025, Ranchi, with research on sustainable food processing, packaging, and biotechnology. From award-winning posters to impactful industry talks, their participation highlighted the university's focus on academic excellence and eco-conscious innovation. This achievement further strengthens VFSTR's reputation as a hub for cutting-edge food science research.



The Department of Food Technology at Vignan's Foundation for Science, Technology & Research (VFSTR) has once again brought pride to the university by making a strong mark at the International Conference on Food Chemistry, Microbiology and Food Process Engineering for Wellness and Health (FCMFPE WellH 2025). The prestigious event was hosted at the Birla Institute of Technology, Ranchi, Jharkhand, from 10th to 12th July 2025, and witnessed participation from leading scholars, researchers, and industry experts across the globe.

One of the most notable achievements came from Mr. Radheshyam Bajad, a Ph.D. Scholar from the department, who won the 3rd Prize in the Poster Presentation category. His research, "Effect of Ultrasound on Extraction of Seaweed Protein: Recovery & Functional Properties", impressed the judges for its innovative approach and relevance to sustainable food processing technologies. His success stood as a proud moment for the department and highlighted the growing importance of eco-friendly solutions in the food industry.

The VFSTR team's presence at the conference extended beyond this recognition, with several scholars and faculty contributing valuable research to the academic discussions. Mr. Sumit Gawai, Assistant Professor and Internal Ph.D. Scholar, presented his work on "Green synthesis and characterization of zinc oxide (ZnO) nanoparticles by incorporating Mimusops elengi L. fruit extract." His study showcased the intersection of nanotechnology and sustainable food applications.

Ms. Agilandeshwari, Ph.D. Scholar, presented a poster on "Effect of UV- and thermosonication on nutritional and shelf life characteristics of sunflower microgreen juices," highlighting advanced processing techniques to improve food safety and quality. Similarly, Mrs. Prathibha, a researcher, showcased her work on "Valorisation of agriculture waste for biofilm development: Nanocomposite packaging films from tapioca starch and ice apple peel extract." Her study underlined the urgent need for biodegradable alternatives to conventional packaging materials.

Other scholars from VFSTR, including Mr. Abhilash (Assistant Professor and Internal Ph.D. Scholar), Mrs. Sindhura Reddy, and Ms. Indu Bargawi (External Ph.D. Scholars), also presented their posters. Their participation added depth and diversity to the discussions at the conference, contributing significantly to the global dialogue on food chemistry and sustainable technologies.

Guiding and mentoring the entire team was Dr. Irshaan, Assistant Professor, Department of Food Technology, VFSTR, who ensured that the scholars received academic support, feedback, and confidence to present their work at an international platform. Adding an important industry perspective to the event, Mr. Krishna Prasad Polisetty, Manager at Tenali Double Horse, delivered an engaging oral presentation titled "The critical role of food engineering in driving sustainable food packaging solutions: An Industrial Perspective." His insights reinforced the need for strong academia-industry collaboration to drive impactful and eco-friendly innovations in the food sector.

The recognition and contributions of VFSTR's faculty, scholars, and collaborators at FCMFPE WellH 2025 reflect the university's commitment to academic excellence, interdisciplinary research, and sustainable development in food science and technology. Their collective efforts not only enhanced the reputation of the institution but also inspired students and young researchers to think innovatively about solving global food challenges.

by
Mr. Radheshyam Bajad
Ph.D. Scholar,
Dept. of Food Tech,
VFSTR

Publications - High Impact Factor Journals in August 2025

S.NO	AUTHORS	TITLE OF PUBLICATION	SOURCE TITLE	IMPACT FACTOR	ARTICLE TYPE
1	Thirumalavasu Palla., Venkata Kanaka Srivani Maddala, Kumaraswamy Gandla	Eco-friendly LC-MS/MS method for quantitative analysis of deutivacaftor, tezacaftor, and vanzacaftor in rat plasma: Optimization via design of experiment and pharmacokinetic evaluation	Microchemical Journal	4.9	SCIE
2	Raveena Malkari Katika, Dr. Sumalatha Boddu	Advanced photocatalysis with biochar-TiO2 composite for efficient oxidation of Congo red dye	Environmental Monitoring and Assessment	2.9	SCI
3	N Govindha Rasu, K Veera Raghavulu, Erdem Cuce, Perabathula Satish. U, Sudhakar	Enhancing the coefficient of performance in vapour compression refrigeration systems with carbon nanotube lubricant additives: an experimental study	Journal of Thermal Analysis and Calorimetry	3	SCIE
4	Mary Margarat Valentine Neela, Subba Rao Peramss	A novel ligand-based convolutional neural network for identification of P-glycoprotein ligands in drug discovery	Molecular Diversity	3.9	SCI
5	Swetalina Bhuyan, Sunita Halder Nee Dey, Subrata Paul	Experimental Assessment of Parameter-Driven MPC for Frequency Regulation in Collaboration with Delay Compensated Demand Response of an Isolated Microgrid	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	1.5	SCIE
6	Vamshi Krishna Munipalle, Dr. Usha Rani Nelakuditi	Distilling spectral-spatial knowledge for efficient hyperspectral image classification	Signal, Image and Video Processing	2	SCIE
7	Nelaturi Nagendra Reddy, Deepak Kumar Panda, Bitra Jayalakshmi	Performance analysis of dielectric modulated inverted C-junction TFET (DM-ICJ-TFET) device for label-free detection of breast cancer cells	Microsystem Technologies	1.6	SCIE
8	Naga Raju Sattu, Kalyani Koganti, Namburi L A Amara Babu, Koya Prabhakara Rao	Identification and Characterization of Belumosudil Degradation Impurities Using the LC–MS/MS Method and Its Validation	Biomedical Chromatography	1.8	SCIE
9	Kalpana Bandla, Sibbala Subramanyam, Dr. Jithendra Chimakurthy	Development and validation of a quantitative proton NMR method for the analysis of lysergol	Analytical Chemistry Letters	1	SCIE
10	Abhishek Kumar, Sanchita Mondal, Debnarayan Khatua, Debashree Guha, Budhaditya Mukherjee, Arista Lahiri, Dilip K Prasad, Arif Ahmed Sekh	AI-driven analysis by identifying risk factors of VL relapse in HIV co-infected patients	Scientific Reports	3.8	SCIE
11	Nithi Phukan, Kunal Nath, Ankur Guha, Achintya Jana., Jayanta Kumar Nath, Dr. Bharat Kumar Tripuramallu	Selective Detection of Picric Acid Using 2D Zinc-Coordination Polymer (Zn-CP): “Turn-On” Fluorescence Response Triggered by PET Suppression	Crystal Growth and Design	3.2	SCI
12	Khaja Mohiddin Shaik, Komala Pandurangan, Seshadri Nalla, Tejeswara Rao Allaka, Srinivas Ganta, Srinivasadesikan Venkatesan, Pilli Veera Venkata Nanda Kishore, Mohammad Z Ahmed	Novel purine-linked 1,2,3-triazole derivatives as effective anticancer agents: design, synthesis, docking, DFT, and ADME-T investigations	Scientific Reports	3.8	SCIE
13	Rahul Wilson Kotla, Dr. Srinivasa Rao Yarlagadda	Enhanced electric vehicle charging topology with integrated fuzzy-based shunt converter	Acta Polytechnica	0.6	ESCI

Institutional Research Excellence

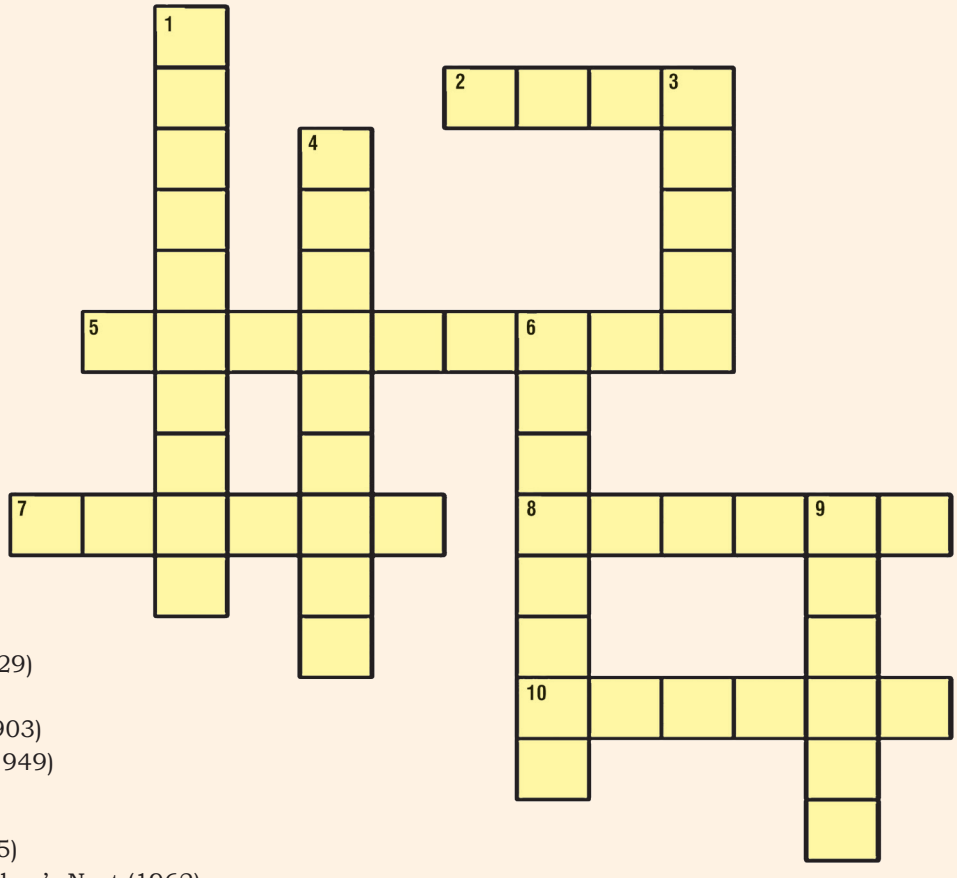
S.No	Parameter		Number
1	Publications	Scopus	5085
		WoS	2393
2	Citations	Scopus	40557
		WoS	19334
3	H-index	Scopus	69
		WoS	56
4	i10		1102

The institution has demonstrated a strong research output with a total of 7,478 publications; amongst them, 5,085 publications are indexed in Scopus and 2,393 in Web of Science (WoS). These publications have garnered significant global attention, reflected in 40,557 citations in Scopus and 19,334 citations in WoS.

The institution's H-index stands at 69 in Scopus and 56 in WoS, highlighting the sustained impact and relevance of its research contributions. Additionally, the institution boasts an i10-index of 1,102, indicating a substantial number of publications with at least ten citations, further underscoring the quality and influence of its scholarly work.

Funology

ENGLISH LITERATURE: AUTHORS



Across

2. The Good Earth (1931)
5. A Farewell to Arms (1929)
7. Catch-22 (1961)
8. The Call of the Wild (1903)
10. Death of a Salesman (1949)

Down

1. The Great Gatsby (1925)
3. One Flew Over the Cuckoo's Nest (1962)
4. The Grapes of Wrath (1939)
6. The Glass Menagerie (1945)
9. 1984 (1949)

ANSWERS

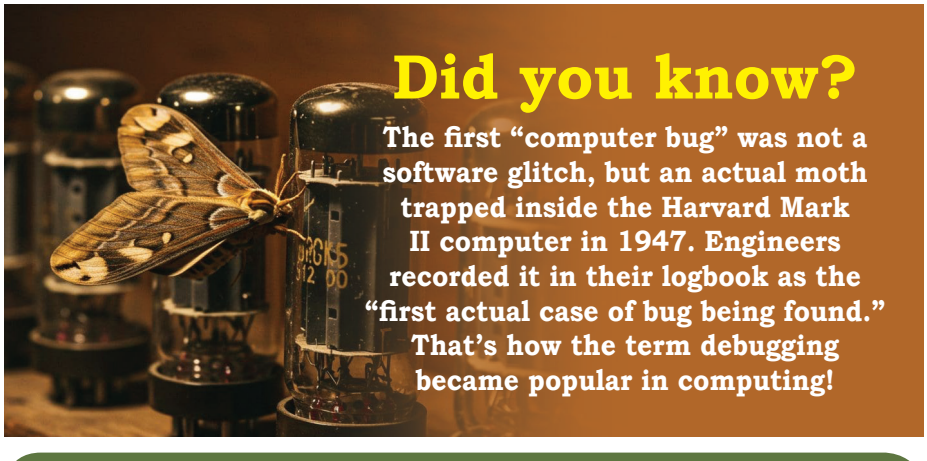
Across : 2. Buck 5. Hemingway 7. Heller 8. London 10.Miller
Down : 1. Fitzgerald 3. Kesey 4. Steinbeck 6. Williams 9. Orwell

Funology

Knowledge Check

1. In a CMOS inverter, what causes static power dissipation?
   A) Both NMOS and PMOS are off
   B) Leakage currents and subthreshold conduction
   C) Switching activity between states
   D) Short-circuit currents during transitions
2. Which law governs the maximum power transfer from a source to a load?
   A) Faraday's Law B) Ohm's Law
   C) Thevenin's Theorem D) Maximum Power Transfer Theorem
3. In a heat exchanger, the effectiveness (ε) is defined as:
   A) Ratio of actual heat transfer to the maximum possible heat transfer
   B) Ratio of outlet temperature to inlet temperature
   C) Ratio of heat loss to heat gained
   D) Ratio of NTU to capacity ratio
4. Shannon's theorem in communication systems defines:
   A) Minimum noise power in a channel
   B) Maximum channel capacity for a given bandwidth and SNR
   C) Maximum modulation index
   D) Minimum bit error probability
5. In control systems, which one ensures stability according to the Nyquist criterion?
   A) The loop gain must be greater than 1 at all frequencies
   B) The number of encirclements of the -1 point must equal the number of right half-plane poles
   C) The system poles must all lie on the imaginary axis
   D) The gain margin must always be negative

Answers : *1. B) Leakage currents and subthreshold conduction 2. D) Maximum Power Transfer Theorem 3. A) Ratio of actual heat transfer to the maximum possible heat transfer 4. B) Maximum channel capacity for a given bandwidth and SNR 5. B) The number of encirclements of the -1 point must equal the number of right half-plane*



Did you know?

The first "computer bug" was not a software glitch, but an actual moth trapped inside the Harvard Mark II computer in 1947. Engineers recorded it in their logbook as the "first actual case of bug being found." That's how the term debugging became popular in computing!

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"If there is no struggle, there is no progress." – *Frederick Douglass*

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From the readers

Watching the graduating class prepare to enter the world through a grand ceremony, it's clear they have gained much more than just a degree. The lessons from our research labs and industry workshops stand out, but so do the skills acquired through campus life. I'm referring to the teamwork learned in our student-led clubs, the perseverance developed during late-night study sessions in the library, and the confidence gained on the sports fields. The Convocation stage isn't just for handing out diplomas; it showcases the growth that happens here.

This is what First-Year Orientation programs aim to achieve through their stay here. That the seniors are not only help new students find their classes; they are also for introducing them to a culture of learning, ethics, and community service at our University.

They teach us that being a Vignan student means being part of a legacy that values honesty and creativity. It seems that "Voice Magazine" perfectly captures this spirit—celebrating the accomplishments of those graduating while inspiring newcomers starting their journey.

by
Venu Vardhan Kantheti
IV AIML

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