

VOICE VIGNAN *of*

SCIENCE | TECHNOLOGY | RESEARCH

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From the VC's Desk

Education is the foundation upon which a prosperous society is built. It is not merely the transfer of knowledge but the cultivation of wisdom, character, and creativity. At Vignan, this year, we are excited to introduce the inaugural edition of Voice Journal, marking a significant evolution from the former Voice Magazine. This transformation reflects our commitment to providing a more dynamic and enriched platform that extends beyond campus highlights. Voice Journal now features in-depth news, insightful reports, new initiatives, and thought-provoking articles, fostering an informed and engaged student community. This new chapter has been made possible by the unwavering support of our readers, contributors, and well-wishers. Your encouragement has been the driving force behind this transformation, and we are grateful for your belief in our vision. Vignan's commitment to academic and research excellence continues to yield remarkable achievements. With 578 research publications across various disciplines, our contributions to high-impact journals in fields such as Electronics & Communication Engineering, Biotechnology, and Pharmacy strengthen our reputation as a hub for innovation. The establishment of the IP Excellence Office marks a major milestone in supporting patents and entrepreneurship, empowering both students and faculty to bring their ideas to life.

International collaborations are flourishing, with ongoing discussions with the University of Southern Queensland, Australia, and partnerships in Madagascar's education sector. These initiatives foster faculty exchange, student research, and cross-border academic growth. The 2024 placement season has been a resounding success, with an 95% placement rate and offers from industry giants like TCS, Amazon, Cognizant, and Deloitte. Our pre-placement training programs, industry interactions, and hands-on internships have played a crucial role in preparing students for professional success. Esteemed guest lectures in cybersecurity, robotics, biotechnology, and medical technology have further bridged the gap between academia and industry, ensuring that Vignan remains at the forefront of cutting-edge knowledge.

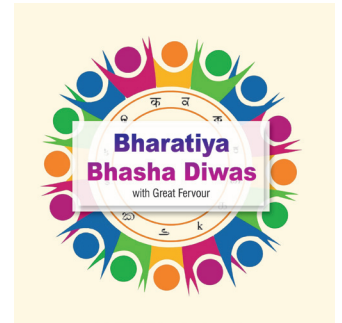
While Vignan thrives as a technology-driven institution, we remain deeply rooted in our cultural heritage. Sankranti Sambaralu 2025 honored 250 farmers from Andhra Pradesh and Telangana, highlighting the integration of AI, IoT, and mechanization in agriculture. Sri Kinjarapu Atchannaidu, Minister for Agriculture, graced the occasion, emphasizing the significance of modern technology in traditional practices. Celebrations like Bharatiya Bhasha Diwas, Semi-Christmas, and Patang Utsav showcased the linguistic and cultural diversity of our student community, reaffirming that while technology shapes the future, our values sustain us. As we look ahead to 2025 and beyond, Vignan remains committed to pushing boundaries in education, research, and community engagement. Together, we will create a future to be proud of.



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Russia's mRNA cancer vaccine, set for 2025, aims to revolutionize personalized treatment by targeting cancer cells



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Open Heart with Madagascar Delegates

Building a sustainable partnership for lasting impact-working together to enhance the quality of education in Madagascar for future generations.



Mr. Sridhar's Journey from Vignan to the IAS

Mr. Sridhar, an esteemed alumnus of Vignan, recently shared his heartfelt memories and invaluable wisdom from his time as a student, shedding light on the impact the institution had on his personal and professional journey. As a student of the CSE batch of 1998, his recollections offer a unique glimpse into Vignan's formative years, a time when the college was still growing and had not yet attained its university status.

Reflecting on his journey, Mr. Sridhar expressed his gratitude and takes pride in being part of Vignan's second-ever batch since its beginning as Vignan College. "Looking back on my time at Vignan, I am filled with immense pride and gratitude. Being part of such a budding institution was a transformative experience," he shared. His admission to the CSE branch was a moment of great achievement for him, as it was both competitive and highly sought after. He shared that, the pride he felt upon earning a seat in one of the six available branches remains etched in his memory.

He vividly recalled the auspicious beginning of his engineering journey at Vignan. "Our beloved chairman, Dr. Lavu Rathaiah, welcomed us

with a memorable introduction ceremony," he said. The ceremony began with students and their parents breaking coconuts before the college's Ganesha idol, symbolising the promise of success and good fortune. Mr. Sridhar highlighted Dr. Rathaiah's inspiring words, which left an indelible mark on his aspirations: "Your competition is not with the students of other colleges in your neighbourhood but with the students of NITs and IITs because that is the quality of education we provide." These words, coupled with Vignan's commitment to excellence, motivated him to set his sights on high-minded pretensions, including his eventual success in the Indian Administrative Service (IAS).

During his time at Vignan, holistic development was a core emphasis. The NTR library, with its extensive collection of study materials and civil service preparation resources, became a sanctuary for his ambitions. "The magazines, books, and resources I accessed at Vignan were invaluable in nurturing my dreams," he stated. His passion for essay writing, developed during his undergraduate years, became another defining aspect of his personality. Recalling the simplicity of the time, he said, "Computers were a luxury back then, and I often had

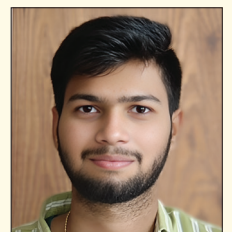
to rely on clerks and typewriters to prepare my submissions. Those small opportunities taught me the value of perseverance and attention to detail."

Despite the challenges of being part of a budding institution, such as an unstable set of faculty in the CSE branch, camaraderie among peers made his four years memorable. "We were navigating uncharted territory together," he reflected, "and that collective determination strengthened our resolve to succeed." These shared experiences fostered lifelong friendships and a deep sense of belonging.

As he looked back on his time at Vignan, Mr. Sridhar credited the institution for its pivotal role in shaping his character. "The vision and commitment of the leadership ensured that we were equipped to compete with the best," he remarked. The nurturing environment instilled confidence and resilience, qualities that became the bedrock of his professional achievements. Today, as a successful IAS officer, Mr. Sridhar acknowledges Vignan as a cornerstone of his growth. "The lessons I learnt at Vignan have stayed with me, guiding me in every step of my journey. This institution is not just a college but a community that nurtures aspirations and fosters excellence." His reflections serve as a testament to the enduring impact of Vignan's dedication to education and its transformative role in shaping the leaders of tomorrow.

With pride and gratitude, Mr. Sridhar concluded his reflection by urging current students to embrace the opportunities provided by Vignan. "Carry forward the values, the memories, and the lessons. Dream big, aim high, and make the most of your time here because this place will forever hold a special place in your heart, just as it does in mine."

by
V. Sri Teja
II CSE





Tech-Transforming Healthcare

Embedded Systems in the Medical Device Industry

The Department of Industry Relations at Vignan's University organized an enlightening guest lecture on December, 2024, featuring Mr. K. Manoj Kumar, Project Lead at Panacea Medical Technologies Pvt. Ltd. The session, tailored for students of Biomedical and ECE departments, focused on the topic Embedded Systems & Its Applications in the Medical Device Industry.

Mr. Kumar provided a comprehensive overview of the critical role of embedded systems

in advancing the medical device sector. The lecture emphasized real-world applications, showcasing innovations and precision technologies in healthcare. He highlighted the importance of mastering fundamental concepts and hands-on learning to bridge the gap between academic knowledge and industry practices.

The session inspired students to think beyond the classroom, explore the intersection of technology and healthcare, and aspire for excellence. Students gained valuable insights into how embedded systems drive

innovation and transform the medical industry as per this practical field. The university extends its heartfelt gratitude to Mr. Manoj Kumar for sharing his expertise and motivating aspiring engineers to pursue excellence in the rapidly evolving field of healthcare technology.

by
Sunanda Athota
III Biotechnology



Plant Health in Asia Research Priorities and Partnerships



The International Conference on “Plant Health in Asia: Research Priorities and Partnerships” (ICPHA) was held on December 17-18, 2024, organized by Asia-Pacific Association of Agricultural Research Institutions (APAARI) in collaboration with European Plant Health Research and Coordination III (EUPHRESKO III) at Vignan’s Foundation for Science, Technology, and Research (VFSTR), Vadlamudi, Guntur, India. The conference brought together scientists, policymakers, industry leaders, and farmers to discuss emerging plant health challenges and sustainable collaborations.

The conference highlighted the importance of global research collaboration and emphasized innovation in the field of plant health. Speakers underscored the role of the Asia-Pacific Association of Agricultural Research Institutions (APAARI) in expanding its research initiatives and fostering global partnerships. Additionally, the potential of Vignan University as a hub for cutting-edge research was showcased. Key discussions

revolved around the need for global coordination in phytosanitary measures, improving professional competence and infrastructure in agroecology, and the importance of scientific validation before the widespread adoption of natural farming practices. The integration of farmers’ traditional knowledge into modern agricultural practices was also recognized as an essential step toward sustainable development.

The conference held a great importance as it served as a platform for bringing together various stake holders of the industry such as the policymakers, academicians, research and development institutes, and most importantly, the farmers in the field of Agriculture. The primary purpose of this conference was to spread the importance of meeting the global food security challenges and demands which includes the food consumption of two billion more people by 2050, which would significantly require innovations in plant health research for the protection of crops from pests and diseases. It was mentioned and specified that the pests currently

cause about 20-40% of global crop yield losses, which would be estimating to the losses costing over \$290 billion annually. The conference speakers stressed that the production of healthy crops is crucial for sustaining agricultural trade while ensuring the compliance with international standards and maintaining market access to all. The speakers also stated that the poor plant health can lead to trade restrictions and economic losses and that the effective plant health management is essential for ensuring the global food security and competitive trade.

The ICPHA 2024 Conference was a significant event focused on advancing global collaboration and innovation in plant health management. It was structured into six thematic sessions that revolved around five critical sub-themes. These included Molecular Breeding and Gene Editing Approaches for Biotic Stress, Changing Pest Scenario, Epidemiology, Forecasting, and Monitoring in Relation to Climate Change (Insect Pests), Changing Pest Scenario, Epidemiology, Forecasting, and Monitoring in Relation to Climate Change (Plant Diseases), Sanitary, Phytosanitary, and Quarantine Regulations, and Artificial Intelligence (AI) and IoT for Plant Health Management. Each session provided a focused platform to discuss innovative approaches to addressing plant health challenges in the face of changing climatic and agricultural dynamics.

A wealth of knowledge was shared during the conference through 22 invited papers, comprising six keynote addresses and 16 lead presentations. Additionally, 19 oral presentations and eight poster presentations



enriched the technical sessions. The keynote presentations covered critical topics such as trade compliance, pesticide residue management, and global phytosanitary research coordination. Technical sessions delved deeper into areas like gene editing for biotic stress management, pest control mechanisms, sanitary and phytosanitary (SPS) regulations, and AI-driven solutions for plant health monitoring.

The conference also included two panel discussions: one focusing on farmers and the other on industry perspectives. These discussions shed light on the role of organic farming, the application of biopesticides, and the integration of data-driven technologies in agriculture. Important issues such as quarantine measures, germplasm security, and the implementation of One Health approaches to link plant health with

broader ecological and human health systems were emphasized.

At the end, The ICPHA 2024 was a resounding success, fostering dialogue on biotechnology-driven pest control, digital innovations, and sustainable solutions for plant health. It underscored the critical need for strengthened phytosanitary policies to ensure food security and compliance with global trade standards. By encouraging farmer-industry collaboration and leveraging modern technologies, the conference set a solid foundation for future research and policy interventions aimed at addressing global plant health challenges. This landmark event has paved the way for meaningful advancements in agriculture and agroecology, aligning global efforts to build resilient food systems for the future.



by
Prof. T. Ramesh Babu
 Dean-SAFT, VFSTR





The Industry Relations Department of Vignan's University organised a Guest Lecture for the Students of the School of Biotechnology & Department of Pharmacy delivered by Mr. Mrutyunjaya, Quality Manager at Biocon. The Guest lecture was on the Topic of "Introduction to Biological Medicines and Biosimilars: Manufacturing, Testing, and Regulatory Approvals Requirements".

Mr. Mrutyunjaya began by

providing a detailed overview of the manufacturing processes of biological medicines and biosimilars. He elaborated on the complexities involved in producing these advanced therapeutic agents, emphasizing their significance in addressing modern healthcare challenges. He also discussed about the rigorous testing protocols that will be done in the labs to ensure the safety and efficacy of biological medicines and biosimilars. He also explained how various testing methodologies are employed to

meet international standards. He underscored the critical role of advanced analytical tools and regulatory-compliant testing procedures in delivering safe and effective treatments to patients.

Mr. Mrutyunjaya emphasized the importance of mastering core concepts in biotechnology and pharmaceuticals while gaining hands-on experience to address industry challenges effectively.

Vignan's University expressed its heartfelt gratitude to Mr. Mrutyunjaya for sharing their expertise and enriching the academic experience of its students. This interactive session not only broadened the students understanding of the biotech and pharmaceutical sectors but also inspired them to pursue excellence and innovation in their careers.



by
A. Jyothirmal
II BME

Cybersecurity and Real Industry Expectations

In an era where digital transformation is reshaping every aspect of our lives, the importance of cybersecurity has never been greater. Recognizing this, Vignan's University recently hosted an enlightening guest lecture on "Cybersecurity and Real Industry Expectations", delivered by Dr. Sriranga Narsimha Gandhi Aryavalli who is currently the Vice President and Head of Information Security at Reliance JIO Infocom Limited. The session was attended by Advanced Computer Science Engineering students, and has provided an in-depth exploration of the evolving cybersecurity landscape along with its implications for aspiring professionals.

Dr. Gandhi who was a seasoned expert in the field, began by outlining the critical role of cybersecurity in today's interconnected world. He emphasized how safeguarding sensitive data and preventing cyber-attacks have become top priorities for industries across sectors. Drawing from his extensive experience, he had presented a comprehensive view on the current challenges and opportunities in cybersecurity, while bridging the gap between theoretical knowledge and real-world applications.

The lecture delved into several key areas:

Emerging Cyber Threats: Dr. Gandhi highlighted the increasing sophistication of threats, including AI-powered cyber-attacks, vulnerabilities in IoT devices, and the complexities of securing cloud-



based systems. These issues, he noted, demand constant vigilance and innovation from cybersecurity professionals.

Industry Expectations: He stressed the importance of mastering core competencies such as threat analysis, incident response, and security architecture. Additionally, Dr. Gandhi advised students on the value of certifications, hands-on experience, and continuous learning to meet industry demands.

Practical Applications: Real-world examples illustrated how cybersecurity strategies are implemented in practice, from mitigating data breaches to securing large-scale networks like those of Reliance Jio. These case studies provided students with a tangible understanding of how theoretical concepts are applied in critical situations.

The session's interactive nature allowed students to engage directly with Dr. Gandhi, posing questions and discussing career pathways in the field of cybersecurity. This exchange of ideas not only deepened their understanding of cybersecurity trends but also inspired them to consider innovative solutions to emerging challenges.

Dr. Gandhi had also discussed the future of cybersecurity while detailing

on the need for interdisciplinary approaches that would integrate the artificial intelligence, machine learning, and blockchain technology. He encouraged students to stay updated with the latest advancements and to adopt a proactive mindset in combating cyber threats, which would certainly help in the students in tackling the challenges regarding their career in cyber security.

By hosting such impactful lectures, Vignan's University reaffirms its commitment to empowering the next generation of engineers with the tools and knowledge required to excel in the field of cybersecurity. This session not only provided valuable insights but also served as a catalyst for students to explore the immense potential and significance of cybersecurity in a rapidly evolving digital world. As industries increasingly rely on secure digital infrastructures, events like these ensure that students are well-prepared to meet the challenges and expectations of the cybersecurity landscape.



by
Jahnvi Kamepalli
II CSE-CS

Opportunities & Future Challenges in Robotics



On December 30, 2024, Vignan's University hosted a thought-provoking guest lecture titled "Opportunities & Future Challenges in Robotics." The event was a collaborative initiative by the Department of Industry Relations and the Department of Mechanical Engineering. Designed to bridge the gap between academia and industry, the lecture brought together students, faculty members, and industry leaders to delve into the rapidly advancing field of robotics.

The session featured eminent speakers from the All India Robotics Association (AIRA): Mr. Pallav Bajjuri, CEO; Mr. Siddhartha, CRO; and Mr. Jeevan Kakarla, Community Manager. Each speaker provided unique and valuable insights into various facets of robotics, including strategy, financial models, and community building. Their diverse perspectives highlighted the multifaceted nature of robotics, inspiring attendees to explore the vast potential of this dynamic field.

One of the key themes of the lecture was the emphasis on equipping students with the skills and knowledge needed to seize emerging opportunities in robotics. The speakers shed light on how rapid technological advancements have created a pressing need for collaboration between academic institutions and industries. This

collaboration is essential not only for driving innovation but also for ensuring the development of a skilled workforce capable of meeting future demands.

The discussion also touched upon the challenges that come with the fast-paced evolution of robotics. The speakers stressed the importance of updating academic curricula to align with industry needs and keeping students abreast of the latest trends in automation, artificial intelligence, and machine learning. They encouraged participants to adopt innovative thinking and problem-solving approaches to make meaningful contributions to the field.

Throughout the session, the speakers underscored the significance of research partnerships and interdisciplinary collaboration in fostering excellence in robotics education. They emphasized how universities can act as pivotal hubs for innovation by working closely with organizations like AIRA to promote knowledge exchange, joint projects, and skill development initiatives. The lecture not only provided technical insights but also



served as a motivational platform for students to envision their roles in shaping the future of robotics. The speakers' real-world experiences and actionable advice resonated deeply with the audience, sparking engaging discussions and questions.

This event also marked a significant step in strengthening the relationship between Vignan's University and AIRA. The partnership is expected to open new avenues for collaborative research, internships, and hands-on training, ultimately benefiting students and the broader robotics ecosystem.

By organizing events like this, Vignan's University reaffirms its commitment to nurturing a technology-driven educational environment. The guest lecture served as a testament to the institution's dedication to empowering students with the tools and opportunities needed to excel in the ever-evolving world of robotics. As the field continues to grow, initiatives like these ensure that Vignan's University remains at the forefront of academic and technological innovation.



by
T. Srivalli Katayani
I CSE

A Step Toward Transforming Engineering Education

Vignan's University recently had the honor of hosting a guest lecture by Dr. Prasad Yarlagadda, a distinguished academic from the University of Southern Queensland, Australia. The lecture, titled "Development of Innovative Academic Programs: Impact of Technological Development on Future Engineers and Scientists," focused on the transformative role of technological advancements in shaping the future of engineering education. Dr. Prasad's insights underscored the urgent need for academic institutions to adopt innovative practices to prepare students for the evolving demands of the engineering and scientific industries.

Dr. Prasad began by highlighting how rapid technological advancements are reshaping industries worldwide. He emphasized the importance of aligning academic programs with these changes, ensuring that future engineers and scientists are equipped with the skills and knowledge to thrive in a technology-driven landscape. From automation and artificial intelligence to sustainable engineering practices, Dr. Prasad explained how universities could incorporate emerging technologies into their curricula to provide students with a competitive edge.

The lecture also explored strategies for fostering innovation in academic programs. Dr. Prasad advocated for interdisciplinary learning, hands-on training, and research-oriented education to develop creative problem-solving abilities in students. He encouraged institutions to integrate real-world challenges into their teaching methodologies, bridging the gap between theoretical knowledge and practical application.

Following the lecture, Dr. Prasad met with the Hon'ble Vice-Chancellor, Prof. P. Nagabhusan, to discuss

potential collaborations between Vignan's University and the University of Southern Queensland. The meeting focused on exciting prospects such as student and faculty exchange programs, twinning programs, and joint research initiatives. Both institutions expressed a shared commitment to fostering innovation in engineering education and preparing students for global challenges.

This event marked a significant milestone in Vignan's efforts to establish international collaborations and enhance its academic offerings. The exchange of ideas and expertise between the two universities has the potential to revolutionize the learning experience for students, providing them with opportunities to gain global exposure and engage in cutting-edge research. Dr. Prasad's lecture and the ensuing discussions reaffirmed Vignan's dedication to embracing technological advancements and innovative teaching practices. By fostering partnerships with leading global institutions, Vignan's University is committed to providing a world-class education that equips students to excel in their careers and contribute meaningfully to society.

The university looks forward to furthering its relationship with the University of Southern Queensland and implementing collaborative initiatives that will shape the future of engineering education. This event was a testament to Vignan's vision of transforming education through innovation, collaboration, and a forward-thinking approach.

by
Jahnavi Kamepalli
|| CSE-CS



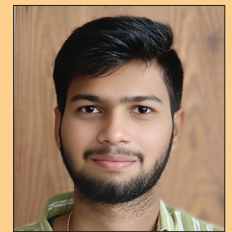
International Seminar on Fluorinated Compounds

The International Seminar on Fluorinated Compounds, which lasted three days, brought together a diverse group of global experts, IIT professors, and university leaders to discuss fluorinated compounds' broad applications. Prof. Anis Tilley, a renowned French scientist, served as the event's keynote speaker, giving insightful presentations on the role of these compounds in pharmaceuticals, agriculture, and environmentally friendly innovations. The numerous industries for which he spoke offered insightful solutions that could be achieved through the use of fluorinated compounds as he went on to show during his spellbinding presentations.

This joint seminar was brought to a successful conclusion with the poster presentation competition which was full of challenges as it saw participation of researchers from across the country. The work of the three winners, Rohit Phanindra Bandaru, Anjita and Bhavya, was particularly impressive in this regard, and the judges appreciated the innovative research and lively presentations that they did.

The event was a resounding success due to its wide-ranging insights and robust discussions. The significance of promoting international collaboration in scientific research was reaffirmed by the enthusiastic participation of global representatives and prominent academicians. The seminar not only showcased groundbreaking advancements but also established the foundation for future collaborations that are designed to capitalize on fluorinated compounds in order to achieve a sustainable and prosperous future.

by
V. Sri Teja
|| CSE



Celebration Snippets

Vignan University celebrated Bharatiya Bhasha Diwas with enthusiasm, emphasizing the importance of linguistic diversity in preserving India's rich cultural heritage. The event witnessed the participation of 400 students, representing over eight different mother languages, showcasing the vibrant linguistic diversity of India.



Bharatiya Bhasha Diwas is observed to honour the multitude of languages spoken across the country, fostering a sense of unity in diversity. The celebration encourages individuals to embrace their linguistic roots while respecting other languages, and promote harmony and cultural integration.

The event also paid homage to Subramania Bharati, the revered “Mahakavi” (Great Poet), who championed linguistic pride and cultural renaissance. Known for his revolutionary Tamil poetry, Bharati envisioned languages as tools for social change and national unity, inspiring generations to take pride in their native languages.

The gathering was addressed by our Vice Chancellor Colonel Prof. P. Nagabhushan . He emphasized the importance of languages in building an inclusive society and fostering national unity. Urging students to honour their mother tongues while learning other Indian languages, he underscored the unifying power of linguistic diversity.

The event concluded on a high note, reinforcing the significance of preserving and promoting India’s linguistic heritage. Bharatiya Bhasha Diwas at Vignan University was a resounding success, inspiring the younger generation to cherish and celebrate the richness of India’s languages and cultures.



by **D. Swarna Charitha**
III Bioinformatics





Semi-Christmas A Night of Joy, Reflection, and Wisdom

Vignan University recently witnessed a heartwarming Semi-Christmas celebration that brought together students, faculty, and staff to embrace the spirit of the festive season. The event, hosted under the beautifully decorated canopy, was a spectacular display of unity, joy, and shared values.

The evening began with a series of captivating performances, including carol singing, skits, and musical acts that resonated with the true essence of Christmas-love, peace, and giving. The meticulously decorated venue, adorned with red and white balloons, a Christmas tree, and a nativity scene, set the perfect ambiance for the evening.

Adding a special touch to the event was the presence of the Santa Claus to spread cheer among the attendees with his warm greetings and delightful surprises. Students from

various departments participated enthusiastically, showcasing their talents and making the celebration a memorable one.

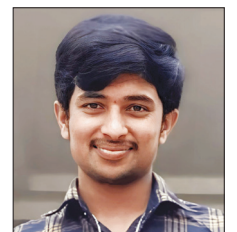
A Message of Wisdom and Hope

The highlight of the evening was the invaluable address delivered by Vignan University's esteemed Vice-Chancellor, Professor P. Nagabhushan. His words, filled with wisdom and insight, left a lasting impression on everyone present.

Professor Nagabhushan spoke about the significance of Christmas beyond its religious connotations. He emphasized the values of compassion, empathy, and unity that the festival represents, urging students to incorporate these principles into their daily lives. "Christmas is not just a celebration; it is a reminder of our responsibility to spread kindness and contribute to

the betterment of society," he said. Drawing parallels between academic life and the spirit of Christmas, the Vice-Chancellor motivated the students to approach their studies with the same enthusiasm and dedication as they exhibited during the celebrations. He highlighted the importance of perseverance, teamwork, and a positive attitude in achieving success, not only in academics but also in life.

The Semi-Christmas celebrations at Vignan University were not merely events but an experience that left everyone inspired and uplifted. The words of Professor P. Nagabhushan served as a guiding light, encouraging students to carry forward the values of Christmas in their academic and personal journeys. As the university moves forward, events like these continue to strengthen the bond among its members, fostering a culture of unity, empathy, and shared joy.



by
G. Sivamani
II CSE



Welcoming 2025 A Fresh Start!

The university was alive as the New Year celebration at the U-Block OAT became a thrilling experience. The event that began at 10:30 AM brought together staff and students to kick start the year positively. Later, the proceedings began with the welcoming of this New Year with message filled greetings from the HOD's and Deans. The greetings provided considerable concentration to the fact that such wishes are made to remind the people about the importance of starting the year with the sense of oneness.

Honorable Vice-Chancellor Colonel Prof. P. Nagabhushan, delivered his speech which was meant to boost morale featured loads of encouragement and left a quenching desire in each one of them to set new achievements and goals for themselves in the coming year and



work together to accomplish them. Celebration and unity was evident in the jubilant mood of students, staff and all stakeholders who cut the cake together in this great occasion. Everyone was vibrating with the purpose and goal behind the celebration. Determination and resilience combined with new thoughts and celebrations were perfectly brought forth to make the coming year a big success. Everyone left the event in high spirits while looking forward to the beginning of a successful and meaningful year of learning and fulfillment.



by
G. Tapaswi VNSL
II CSE

New Year Delight - Millet Laddu

Wanting to welcome the New Year with a thoughtful blend of tradition and health, the Food Technology Department at Vignan's University undertook a unique initiative that highlighted the nutritional benefits of millet-based foods. On this joyous occasion, the students and staff of the department prepared an impressive 2.3 tonnes of millet laddus and sweets, which were distributed throughout the university's faculty and staff. This gesture not only celebrated the start of 2025 on a good note but also aimed to raise awareness about the health advantages of incorporating millets into daily diets.

The millet laddus, a wholesome and delicious treat, served as a reminder of the rich heritage and health benefits of traditional foods. These laddus are packed with essential nutrients, including dietary fiber, iron, calcium, and vitamins, making them an excellent snack for promoting overall well-being. Additionally, their low glycemic index ensures stable energy levels and improved digestion, making them a healthier alternative to refined sugary snacks. Beyond their nutritional value, the eco-friendly nature of millets as sustainable crops aligns with the university's commitment to environmentally responsible practices.

This initiative was widely appreciated by the university community for the department's thoughtful approach to blending health, tradition, and sustainability into the current modern life style. The Food Technology Department's effort demonstrated their dedication to culinary innovation and community wellness, setting a positive and nutritious tone for the New Year.

In another stride toward innovation towards health and happiness, the Food Technology Department recently installed a state-of-the-art shrink-packaging machine, marking a significant advancement in their food



packaging capabilities. This move reflects the department's mission to integrate modern technologies into its curriculum while promoting sustainable practices in food production and preservation. The shrink packaging machine offers several core benefits that could enhance the quality and the appeal of packaged food products. By providing a secure wrap, the machine shields food items from moisture, dust, and contamination, thereby ensuring superior product protection.

The machine also extends the shelf life of perishable items by minimizing exposure to external environmental factors, maintaining freshness and quality for longer periods. Additionally, the machine's efficient use of packaging materials ensures cost-effectiveness, while its versatility allows it to handle a wide range of products, from bakery items to ready-to-eat meals, while having the ability to deliver a professional and clean finish, making them market ready. Beyond its technical benefits, the installation of the shrink-packaging

machine provides valuable learning opportunities for students. Through hands-on training, students gain practical experience in modern packaging technologies, equipping them with industry-relevant skills that enhance their employability. Furthermore, the machine supports research and development initiatives of the department, enabling students and faculty to test and create innovative packaging solutions for new food products.

This newest addition in technology underscored the department's commitment to fostering academic growth and practical expertise. By combining technological advancements with a focus on sustainability, the Food Technology Department continues to lead the way in providing a well-rounded education and innovative solutions for the food industry. Whether through initiatives like the millet laddu preparation or advancements like the shrink-packaging machine, the department is making strides in shaping the future of food technology and healthy sustainability.



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



**Sankranti
Sambaralu
2025**

A Tribute to Farmers and Agriculture



The Sankranti Sambaralu 2025 celebrations at Vignan University on 4th January 2025 marked a grand occasion to honor the backbone of India—its farmers. Organized by VFSTR University in collaboration with the Rythu Nestham Foundation and the Department of Agriculture & Horticulture Sciences (AHS), the event, held at the Convocation Hall, aimed to celebrate the spirit of Sankranti while highlighting the contributions of farmers and advancements in agriculture.

The program commenced with a vibrant Kolatam group performance, followed by a classical dance by students of the AHS department. The ceremonial lighting of the lamp by dignitaries, accompanied by the

Vignan theme song, set the tone for the day's events. Dr. T. Ramesh Babu, Director of Agricultural & Horticultural Sciences at VFSTR, expressed pride in organizing the event, emphasizing the importance of agriculture as the foundation of India's heritage. Reflecting on the department's history, inaugurated in 2001 through the efforts of Dr. Lavu Rathaiah, Chairman of the Vignan Group, and Hon. Member of Parliament Lavu Srikrishna, Dr. Babu remarked, "Our farmers are our heritage. This department works tirelessly to transform agriculture into a sustainable and profitable practice, especially for small-scale farmers."

Farmers at the Heart of Celebrations

Padma Shri Awardee Sri. Y. Venkateswarao, Chairman of the

Rythu Nestham Foundation, hailed the event as a pioneering effort in honoring 250 farmer families from Andhra Pradesh and Telangana. "This is perhaps the first time that such a large number of farmer families are being recognized for their hard work and innovations," he noted, urging attendees to applaud their contributions. He also extended gratitude to the Chief Guest of the day, Sri. Kinjarapu Atchannaaidu, Andhra Pradesh's Minister for Agriculture, Co-operation & Marketing, for his unwavering support for farmer welfare.

Sri Lavu Srikrishnadevarayalu, MP and Vice-Chairman of the Vignan Group, expressed his vision for integrating farmers into the university's celebrations. "We cannot



remain isolated as an institute. Our role is to influence and involve society, including farmers, who form the core of our existence. Events like these are an opportunity to bring all walks of life together to honor and learn from their experiences,” he said.

Challenges and Innovations in Agriculture

During his address, Dr. Lavu Rathaiah, Chancellor of VFSTR, posed critical questions about the challenges in organic farming and the practicality of sustainable agricultural practices. He emphasized the need for innovation in concentrated fertilizers and pesticides to make natural farming viable. “It’s not enough to say we want to avoid chemical inputs. We must create alternatives that are effective, affordable, and efficient for farmers,” he argued. Dr. Rathaiah also highlighted the importance of mechanization and technology integration in agriculture. “The future lies in IoT and AI. Imagine a farmer receiving real-time alerts on pest attacks or soil health directly on their smartphone. This is the kind of

innovation we need to invest in,” he added, inspiring students and faculty to contribute to these advancements.

The Chief Guest, Sri. Kinjarapu Atchannaidu, acknowledged the declining interest in farming and stressed the need for mechanization and soil testing. “Agriculture can thrive only if we ensure proper monitoring, mechanization, and investment in innovative practices. Mechanization isn’t about imposing tools on farmers; it’s about understanding their needs and delivering solutions that work for them,” he stated. Drawing parallels with health check-ups, he remarked, “Just as a healthy person gets regular medical tests, we need to test our soil to provide the nutrients it needs for optimal yield.”

Felicitation and Recognition

The event concluded with the felicitation of the Chief Guest and 250 exemplary farmers from Andhra Pradesh and Telangana. These 250 farmers and their families were recognized for their hard work, innovation, and dedication

to sustainable agriculture. The dignitaries encouraged the awardees to share their knowledge and experiences with students, inspiring the next generation of agricultural professionals.

A Vision for the Future

The Sankranti Sambaralu 2025 celebrations at Vignan University were a resounding success, blending tradition with innovation. The event highlighted the institution’s commitment to fostering sustainable agricultural practices, integrating technology into farming, and honoring the invaluable contributions of farmers. By bridging the gap between academia and agriculture, Vignan University continues to play a pivotal role in transforming the agricultural landscape and empowering the farming community.

by
M. Bhavana
III AHS





Sankranti-2025 Our Rich Cultural Heritage

Vignan University celebrated Sankranti 2025 with great enthusiasm and cultural fervor at the A-block Open Air Theater (OAT). The event commenced at 11:00 AM with opening remarks by Rajitha and Leela Krishna, setting the stage for a day filled with joy and tradition.

The celebrations began with the traditional Pongal preparation, led by Rachananjali Mam, Rukmini Mam, and other dignitaries. The tantalizing aroma of freshly prepared Pongal filled the air, drawing excitement from the gathered crowd. The lighting of the Bhogi Mantalu by Registrar Commodore Dr. M.S. Raghunathan and internal dignitaries marked the formal commencement of festivities.

They shared their warm wishes, accenting the Sankranti's essence as a festival of harvest, gratitude, and renewal. The cultural festivities kicked off with an engaging performance by Sumanvitha and Sivamani, followed by an energetic dance showcasing India's vibrant

cultural heritage. Basavanna Aata, a unique folk art form, was a delightful addition, reinforcing the importance of preserving traditional practices.

Children rejoiced during the Bhogi Pandlu celebrations, which were filled with joy and laughter. A mesmerizing musical performance by Team Dhvani enthralled the audience with its melodious tunes. The event concluded on a soulful note with Haridasu Bhajana and the traditional Kodi Pandelu, leaving the audience with a sense of spiritual fulfillment.

On, January 8th, The university was brought alive with the aromas of delicious dishes as 40 teams of three members each showcased their culinary skills. The competition, held from 3:00 to 6:00 PM, featured both vegetarian and non-vegetarian categories.

Vegetarian Winners:

1. Shreya Singh, Anya, and Khushi Yadav (1st Place)
2. Kavya Nandini, Naga Mounika, and Lakshmi Deepika (2nd Place)

Non-Vegetarian Winners:

1. A. Deepthi, P. Sai Vedagna, and I. Rohith (1st Place)
2. Simoni Shah, Trishank Chowdary, and Geetha (2nd Place)

On Patang Utsav held on January 9th, brought out another level of competitive spirit among the participants. This kite-flying competition had brought the sky above the university, alive with colorful kites as 26 teams of two participants competed. The event, organized by Technical Design, Thandav Crew, and Shutter Society, was a resounding success, fostering camaraderie among students.

Judged on their kites' height and distance, the winners were:

1st Place: Jithin Pandey and Abuzaar Shaik (II BBA)

2nd Place: Charan and Shaik Rehan Ahmad

On January 10th, The campus' bare and dull grounds had transformed



into a vibrant canvas filled with eye striking Rangoli designs as 35 teams participated in this Rangoli competition restricted to traditional Chukkala Muggulu and Sankranti themes.

Winners:

1. S. Mounika and S. Gayitri (2nd-year CSE) (1st & 2nd Place)
2. K. Poojitha (3rd-year BBA) (3rd Place)

The prize distribution ceremony recognized students who excelled in various competitions such as Patang Utsav, Cooking, and Rangoli, adding a competitive and celebratory spirit to the festivities, followed by a vote of thanks by Gisele which brought down the curtains of this year’s memorable Sankranti celebrations which were held for 3 days. Our university celebrated the Sankranti Festival, in a way to be only be remembered as a vibrant celebration of art and the richness of Indian culture along with its eras long heritage.



by
M.Ramya Sri
II AI&ML



The Publishing Chapter

The Office of the Dean – Research & Development at Vignan University recently published a comprehensive report on various departments’ publications and research contributions for the year 2024. This detailed analysis highlights key achievements and provides a clear snapshot of the institution’s research progress. Among the most significant findings is the institution’s overall research output, boasting a total of 578 publications, supported by 401 faculty members, of which 273 are doctorate faculty. These numbers reflect the university’s commitment to fostering a robust research culture and encouraging faculty to make meaningful academic contributions.

In terms of departmental performance, Electronics & Communication Engineering (ECE) stood out as the top performer, setting an ambitious target of 128 publications and successfully completing 61. Its contributions included papers published in high-impact SCI/SCIE and Scopus-indexed journals, emphasizing its active involvement in cutting-edge research. The Computer Science Engineering (CSE) department followed closely, achieving 54 publications against its target of 118. Both departments demonstrated a solid research foundation while striving to enhance their output in the coming years.

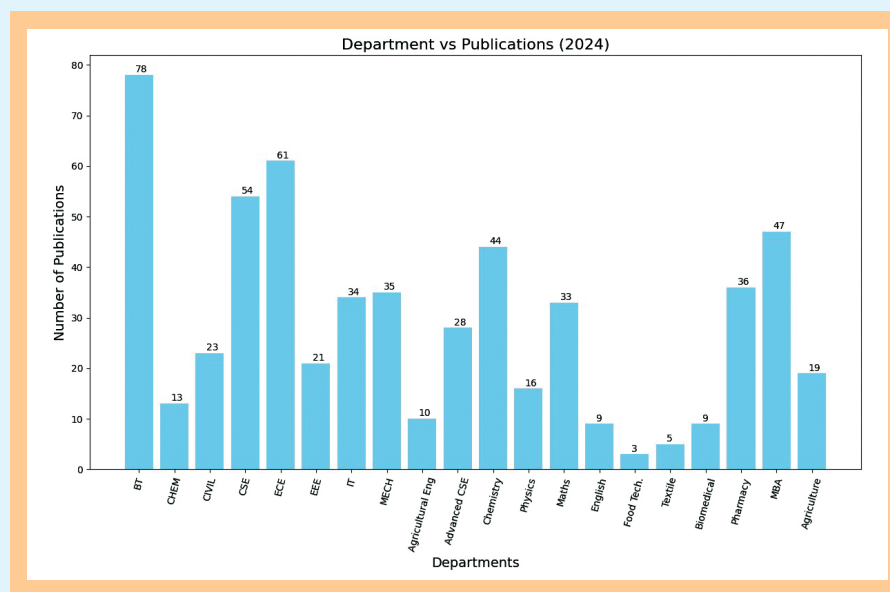
Certain departments achieved remarkable success in meeting their targets. Biotechnology (BT), for instance, nearly matched its

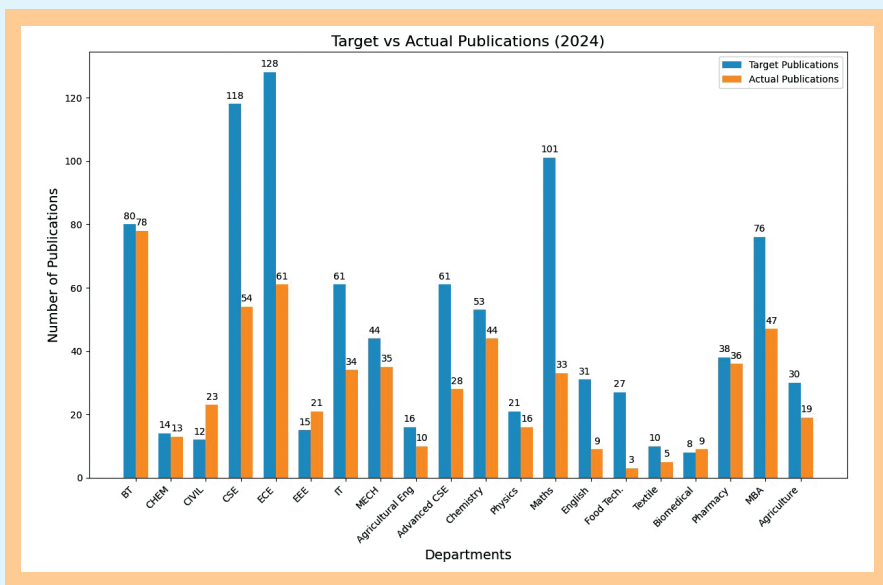
goal by publishing 78 out of the 80 targeted works. These included 46 contributions to prestigious SCI/SCIE and 2 UGC-approved journals, showcasing its strategic focus on quality research. Similarly, the Pharmacy department met its target of 38 with 36 publications, out of which 22 are SCI/SCIE publications, excelling in applied sciences and demonstrating its capacity to translate research into practical applications.

Key research metrics further underline the university’s achievements. Chemistry and ECE emerged among the others as leaders in SCI/SCIE publications, with 33 and 18 papers respectively, indicating their prominence in high-impact research. The Mathematics department made notable contributions with 55 communicated papers along with 5 published book chapters, followed by the MBA department with 37 communicated papers. However, patent filings were

minimal across most departments, except for the IT department, which recorded 11 patents published or granted, reflecting its strong focus on innovation and intellectual property development. Special achievements were also highlighted, with Biomedical Engineering playing a pivotal role in interdisciplinary research having published 11 works out of the set target of 8. This department contributed significantly to specialized journals and showcased its work at key conferences. IT and Advanced CSE departments effectively merged theoretical and practical research, disseminating findings across a variety of platforms and applications.

Interestingly, smaller departments such as Chemistry and Physics outshone larger ones by securing significant publications in high-impact journals, despite their limited faculty size. The Department of Civil Engineering





outdid itself even with a faculty size of just 9, with 23 publications out of the target set was just 12. The Chemical Engineering Department proved its worth while having a faculty size of 5

doctorate professors, achieving 13 publications out of its set target of 14. Meanwhile, larger departments like ECE and CSE leveraged their size and resources to produce high publication counts. Despite the impressive



Biotechnology (Faculty Publications)

Total Number of Publications	114
Research / Review articles	79
SCI / SCIE	15
ESCI	12
Scopus / WoS	17
Book Chapters	35

Biotechnology (Students Publications)

Total Number of Publications	09
Research / Review articles	08
SCI / SCIE	02
ESCI / SCOPUS	05
Book Chapters	01

Pharmacy (Faculty Publications)

Total Number of Publications	51
Research / Review articles	41
SCI / SCIE	25
Scopus	14
ESCI	02
Book Chapters	06
Books	04

overall performance, only about 40% of the departments met or exceeded their publication targets, underscoring the need for improvement in the remaining 60%. Departments like Biotechnology and Pharmacy displayed near-perfect alignment with their targets, suggesting highly efficient research strategies and well-coordinated efforts. On the other hand, challenges remain for several other departments, requiring enhanced planning, resource allocation, and research guidance.

In conclusion, the publication status report for 2024 paints a mixed yet optimistic picture of Vignan University's research landscape for the future years.

by
Dharmasastha
III Biomedical



CAMPUS to CAREERS

VIGNAN'S FOUNDATION Deemed to be UNIVERSITY
FOR SCIENCE, TECHNOLOGY AND RESEARCH



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

The 2024 placement season at VFSTR University has been a resounding success, further cementing its reputation as a leading institution for higher education and career development. With 85% of eligible students and 95% of total students securing placements, the university has once again demonstrated its commitment to equipping students with the skills and opportunities needed for successful careers across a diverse range of industries.

Placement Highlights

This year, over 1,200 job offers were extended to VFSTR students, showcasing the university's strong industry connections and the quality of its graduates. The placement drive saw enthusiastic participation from top-tier companies in sectors such as IT, consulting, manufacturing, banking, and core engineering. Notable recruiters included TCS, Cognizant, Amazon, Accenture, Deloitte, PWC, Medtronics, Zifo R&D, and many more were a part in this placement season.

The highest package offered this season was an impressive ₹ 44 LPA, secured by a student placed in an SDE 1 role with a leading multinational corporation. The average package stood at a commendable ₹ 5.2 LPA, reflecting the high caliber of VFSTR graduates and their industry readiness.

In addition, several students earned internships and pre-placement offers (PPOs) from global companies based in the UAE and Singapore, further expanding their career horizons across international borders.

Sectoral Trends and Field-Oriented Employment

Placements this year reflected the dominance of the IT and software

sector, with approximately 60% of students securing roles in software engineering and related fields. Core engineering disciplines also attracted significant interest, particularly in Electrical, Mechanical, and Civil engineering, which accounted for 15% of placements. Additionally, consulting and analytics firms hired 10% of the students, while sectors such as BFSI, manufacturing, and edutech contributed to the remaining 15%. The university achieved over 95% placements individually, in specialized branches like EEE, Mechanical, Biomedical, Chemical, and Civil Engineering which highlighted its strength in core technical education.

Framework for Placement Success

VFSTR University's robust placement framework played a pivotal role in this success. The institution offers comprehensive pre-placement training, including skill development workshops, mock interviews, and industry-focused pre-placement talks. This intensive preparation equips students with the technical and soft skills required to excel in recruitment processes. The university's internship program serves as a cornerstone of its placement strategy, enabling students to gain practical experience in their chosen fields. Many students successfully transitioned from interns to full-time employees through pre-placement offers (PPOs). Additionally, the alumni network has been instrumental in providing mentorship and facilitating high-quality job opportunities for current students.

Student Experiences and Reflections

Students have expressed immense satisfaction with the placement process, praising the dedicated support of the placement cell and the quality of pre-placement training. Many highlighted the value of

industry interaction and personalized guidance, which prepared them to navigate competitive recruitment scenarios with confidence.

Future Outlook

The 2024 placement season has reinforced VFSTR University's status as a premier institution for higher education. Its strong industry networking, focus on student development, and diverse placement opportunities make it a preferred choice for aspiring professionals. By achieving 75% placement for the graduating batch, the university continues to set benchmarks in career development. Its dedication to aligning academic programs with industry needs ensures that VFSTR graduates remain at the forefront of innovation and success. As the university builds on this momentum, it remains steadfast in its mission to empower students to excel in their careers and contribute meaningfully to society.



Driving Startups and Research Forward: IP Excellence Initiative

Vignan University is making significant strides in the evolving landscape of intellectual property rights (IPR) with the launch of the IP Excellence Office. This initiative serves as a cornerstone of innovation, entrepreneurship, and research commercialization. The office supports researchers, students, and faculty in navigating the complexities of patents, trademarks, copyrights, and trade secrets, simplifying intellectual property law to protect and enhance the value of their creations in competitive markets.

Nurturing an Innovative Culture

The IP Excellence initiative fosters an innovative culture by offering workshops, seminars, and specialized programs that equip the Vignan community with the skills needed to succeed in entrepreneurship and innovation. Topics such as innovation management, intellectual property protection, and entrepreneurial strategies inspire students, researchers, and faculty to pursue groundbreaking ideas with confidence.

Strategic IP Management and Commercialization

A key component of Vignan's innovation ecosystem is the strategic management of intellectual property. The IP Excellence Office helps evaluate the commercial potential of inventions, crafting tailored IP strategies to maximize their impact. From patent filing to patent prosecution, the office provides step-by-step guidance to inventors, connecting them with external patent attorneys and offering financial support for patent filing.

Once patents are granted, the office helps move ideas from concept to

market, connecting inventors with industry partners, investors, and entrepreneurial resources. Whether through licensing agreements or startups, the office ensures intellectual property plays a key role in driving societal and economic progress.

Bridging Academia and Industry

Through strong partnerships, Vignan University ensures that its research has a tangible impact. These collaborations not only contribute to solving global challenges but also foster industry growth and economic development. The IP Excellence Office plays a critical role in aligning academic research with industry needs, ensuring that innovations are applied effectively in the real world.

The Role of the IP Excellence Office

The IP Excellence Office is more than a service provider—it's a catalyst for innovation. By offering expert guidance on patenting, IP protection, and commercialization, the office empowers inventors and entrepreneurs to focus on their work while ensuring their intellectual property is well-managed and protected. This initiative helps create a vibrant ecosystem where ideas flourish and tangible solutions emerge, shaping the future of research, innovation, and entrepreneurship.

A Bright Future Ahead

With continued expansion, the IP Excellence Office is positioning Vignan University as a leader in the global innovation ecosystem. By offering tailored solutions, fostering innovation, and strengthening collaborations, the university is paving the way for impactful research and entrepreneurial success, from idea to market.

Mamillapalli Sudheer, with a Master's degree from NIT Warangal and an LLB, stands at the intersection of law and technology, applying his expertise to protect intellectual property rights (IPR) for researchers, scientists, and innovators. With a belief that IPR is a "techno-legal domain," Mr. Sudheer has pioneered initiatives that bridge the gap between legal protection and technological innovation. As the head of the Center of IP Excellence at Vignan University, he has led remarkable achievements, including the filing of over 60 patent applications in three months.



Mr. Sudheer's career is a testament to his passion for exploration, collaboration, and impact. While many of his peers chose traditional paths, he embraced the evolving world of IPR, helping both academia and regional industries protect their intellectual assets. His expertise fosters a culture of innovation by guiding inventors through the complexities of patent applications, trademarks, and geographical indications like Guntur chili. His work is driven by a deep commitment to advancing IPR as a crucial tool for fostering progress, attracting investment, and ensuring that intellectual creations have the legal protection they deserve.

- Advocate Mamillapalli Sudheer
M.Tech, LLB, Enrolled as an Advocate with
Bar Council of Andhra Pradesh.

Russia's mRNA Cancer Vaccine A New Ground Breaking Frontier in Oncology

Russia has captured global attention with its innovative mRNA-based cancer vaccine, inclined to hit the market in 2025. Developed by the Gamaleya National Research Center for Epidemiology and Microbiology, this vaccine represents a monumental step in personalized cancer treatment and prevention altogether. By this potential of mRNA technology, the vaccine had been designed to stimulate the immune system to recognize and eliminate cancer cells, offering a tailored approach that could revolutionize the field of oncology.

What sets this vaccine apart is its individualized methodology. It utilizes components derived from a patient's own tumor, enabling the vaccine to trigger an immune response specific to that individual's cancer. Early pre-clinical tests have shown exceptional promise, with the vaccine demonstrating the ability to halt tumor development and effectively prevent metastasis, the spread of cancer to other parts of the body. These results signify a major breakthrough in cancer therapy and underscore the potential for mRNA technology to address some of the most challenging diseases faced today.

A particularly remarkable feature of this initiative is the integration of artificial intelligence (AI) in the

vaccine's development process. AI played a critical role by accelerating the customization of the vaccine for individual patients, reducing production time to as little as one hour. This advancement not only enhanced the efficiency of vaccine development but also laid out the groundwork for creating more accessible and affordable cancer treatments worldwide. Such innovations could help redefine healthcare delivery by making highly specialized treatments available to broader populations.

Russia's commitment to accessibility is evident in its plan to provide the vaccine free of cost to patients. This humanitarian approach ensures that groundbreaking healthcare innovations are not limited to a privileged few but are accessible to everyone, regardless of economic status. This initiative comes at a time when global pharmaceutical giants like Moderna and BioNTech have also been making strides in mRNA-based cancer vaccines, signaling a competitive yet collaborative race to revolutionize cancer care.

However, despite these promising advancements, the vaccine must still yet to undergo rigorous clinical trials to establish its safety and efficacy in a more pronounced manner. This path to regulatory approval still remained as a challenging aspect, as

comprehensive testing is an essential requirement to meet global healthcare standards. If successful, this vaccine could become a game-changing weapon in the fight against one of the deadliest diseases worldwide.

This Russian initiative served as a powerful reminder of how science and technology can transform healthcare. It inspires hope for millions of patients battling cancer and offers a glimpse into a future where advanced, personalized treatments are the norm rather than the exception.

Beyond its immediate implications for cancer care, this milestone showcases Russia's significant progress in biotechnology and underscores the importance of global collaboration in the fight against cancer. As students in healthcare and pharmacy, we are witnessing history in the making. This breakthrough encourages us to aspire toward contributing to such transformative developments, reinforcing the belief that the future of medicine holds boundless possibilities for innovation and hope.



by
Fizzah Fatma
IV B.Pharmacy



Higher education is a critical component of an individual's personal and professional growth. It not only enhances one's knowledge and skills but also opens doors to new opportunities, career advancement, and social mobility. In India, where the youth population is significant, higher education plays a vital role in shaping the country's future.

Diverse Career Paths and Research and Innovation: Higher education offers diverse career paths through various specializations and provides opportunities for research and innovation, enabling students to contribute to technological advancements and social change.

Entrepreneurship and Global Opportunities: Higher education institutions support students' entrepreneurial endeavours and provide global opportunities through international collaborations, study abroad programs, and job prospects in multinational corporations.

Government Initiatives and Policies: The Indian government has introduced initiatives such as the National Education Policy 2020, Rastriya Uchcharat Shiksha Abhiyan (RUSA), and scholarships/financial aids to enhance accessibility, affordability, quality, and excellence in higher education, particularly for low-income students.

Our Student Stories

Several students from Vignan University have pursued higher education and achieved great success. Our students have shared their valuable insights like "My time at Vignan University"



"It is a transformative journey that began with curiosity and evolved into confidence, resilience, and growth. Vignan wasn't just an academic institution for me; it has been a world of opportunities that shaped my personality and prepared me for life's challenges. Such experiences were to prove as diverse as they were enriching. Attending colourful university fests, facing online semester examinations during the pandemic, joining social activities and college trips were all moments that made me who I am. If there's one thing that I will take back from Vignan, it's the attitude that it instilled in me to face the outside world, take decisions, learn from my mistakes and come out stronger. It was a journey with a lot of milestones".

This is V. Sai Nagendra Babu Kondeboyena and I have earned my B.Tech degree from Vignan University (2015–2019) and later pursued higher education at La Trobe University in Australia. Currently, I am serving as the Coordinator of IT Support for the Moira Shire Council, a local government organization based in Cobram, Victoria. Thanks to Vignan University.

by
R. V. Saranya
II CSE



"During the first year, I have been a member of the Theatre Arts, a sector of the Student Activities Council (SAC), performed at the

National Fest Mahotsav-2k19, and worked on the application for the University of Delhi's Youth Festival. I elected as the Gender Champion in my second year and have promoted inclusivity and equality.

Then the 3rd year I became Vice President of SAC, planned and organized over 50 activities, learnt the importance of team work. I did many things this last year: replicate president of SAC Team, student ambassador for SVEEP, represented the election commission of India and student convenor for MAHOTSAV-2023. These roles instilled a framework for leading with empathy, determination, and vision. I was recognised and crowned as the Vignan - Best Leader - 11th Convocation of Vignan Foundation for Science, Technology, and Research. It was an acknowledgement and proof of my growth across four incredible years at Vignan.

I am Ajay Grandhi and today, I am pursuing my MSc in Forensic Science at the National Forensic Sciences University (NFSU), Goa. Vignan laid the foundation for my dreams, and NFSU is helping me specialize and refine my skills. Looking back, Vignan was more than a chapter in my life—it was a transformative journey. It taught me to cherish the path, learn from every step, and embrace the challenges that lead to growth.

by
V. Sri Teja
II CSE



With Madagascar Delegates ...



Q. Could you briefly describe the education system in Madagascar?

A. Madagascar's education system follows a traditional structure with primary, secondary, and higher education levels. However, the system faces challenges, particularly in the quality of teaching at the secondary and high school levels. Many teachers lack adequate training and resources, impacting student learning outcomes.

Q. What are the primary challenges the education sector in Madagascar is currently facing?

A. **The primary challenges include:**
Inadequate teacher training: Many teachers, especially at the secondary level, lack proper training and professional development.

Low student retention rates: High dropout rates are observed, particularly at the secondary and higher education levels.

Limited access to quality education: Geographical and socioeconomic disparities limit access to quality education for many students.

Lack of resources: Schools often lack adequate infrastructure, teaching materials, and technology.

Q. What type of collaboration are you looking to establish with Vignan (e.g., in primary, secondary, or higher education)?

A. The collaboration will focus on secondary and higher education.

Q. Are there particular areas where you feel Vignan's expertise could make a significant impact (e.g., curriculum development, teacher training, or digital education)?

A. Vignan's expertise in teacher training and capacity building is particularly relevant to Madagascar's needs. The collaboration could focus on:

Developing and implementing effective teacher training programs.

Sharing best practices in teaching methodologies, particularly active learning techniques.

Establishing incubation centers to foster innovation and entrepreneurship among students and educators.

Q. Would you be interested in developing student or faculty exchange programs between Madagascar and Vignan?

A. Yes, Madagascar is interested in developing student exchange programs with Vignan University. This would enable Malagasy students to pursue higher education in India and gain valuable international experience.

Q. Are there specific vocational courses or skill development programs that you would like Vignan to support?

A. Madagascar would appreciate Vignan's support in developing specialized vocational courses and skill development programs for both students and staff. These programs should address the specific needs of the Malagasy

job market and empower youth with relevant skills.

Q. After visiting Vignan, what are your impressions of the institution's capabilities?

A. The visitor was impressed by Vignan's capabilities in education and research. The institution's focus on innovation, technology, and practical skills aligns well with Madagascar's goals for improving its education system.

Q. Are there long-term goals for this collaboration, and how do you envision them taking shape?

A. The long-term goal is to establish a sustainable partnership that will contribute to the improvement of education quality in Madagascar. This could involve:

Joint research projects on educational issues relevant to Madagascar.

Development of online learning platforms to enhance access to quality education.

Establishment of a network of Malagasy alumni from Vignan University to support future collaborations.



by
N. S. N. B. Nihari
II CSE

With Sri. Kinjarapu Atchannaidu

Minister of Agriculture, Animal Husbandry, Dairy Development & Fisheries, Govt. of Andhra Pradesh

Q. What is the government vision for modernizing agriculture in our state?

A. We are promoting agricultural mechanization. For this, we are providing mechanized agri-implants to farmers on subsidy. We are estimating soil fertility through satellite-based soil testing technology. We are also conducting crop cutting experiments based on satellite data. In the future, we are giving more importance to mechanized methods over traditional manual practices.

Q. What measures are being taken by the government to promote agricultural research in universities?

A. We are encouraging research in agricultural universities and allocating funds to develop modern sectors for higher productivity. Promoting organic farming through research and innovation will drive the adoption of advanced farming techniques, enhancing both productivity and sustainability.

Q. In What ways is the government encouraging the use of Drones in farming?

A. The use of drones is increasing, and many applications have been submitted to the government. Drone technology plays a significant role in agriculture by helping identify crop diseases and pinpoint affected areas. The government has approved the import of 40,000 drones for use in the agriculture sector and announced subsidies to support farmers' adoption. This targeted approach reduces the need for blanket pesticide application, minimizing losses and maximizing efficiency.



Q. How does organic farming compare to traditional farming in terms of resilience to natural calamities?

A. While some believe that organic farming may not withstand natural calamities like cyclones, studies show that organic farming, especially with natural fertilizers, actually reduces damage and increases resilience. Ongoing experiments by scientists are showing promising results.

Q. What trends are emerging in the horticulture industry?

A. The demand for horticulture is increasing, and consumer preferences are evolving. There is a significant improvement in the quality and variety of fruits and vegetables, which is contributing to the industry's growth.

Q. What would you like to say about Vignan on this occasion and its efforts to support agricultural innovation through education and technology?

A. Vignan has recognized the efforts of farmers from the states of Telangana and Andhra Pradesh, honoring their contributions

and reflecting their value in these regions. This recognition highlights Vignan's commitment to social responsibility and acknowledges agriculture as the backbone of both the states' and the nation's development. Furthermore, Vignan offers a range of courses that integrate technology to support and advance agricultural practices. By sharing agricultural knowledge and innovations with farmers and students, Vignan is making a significant impact on the agricultural landscape.

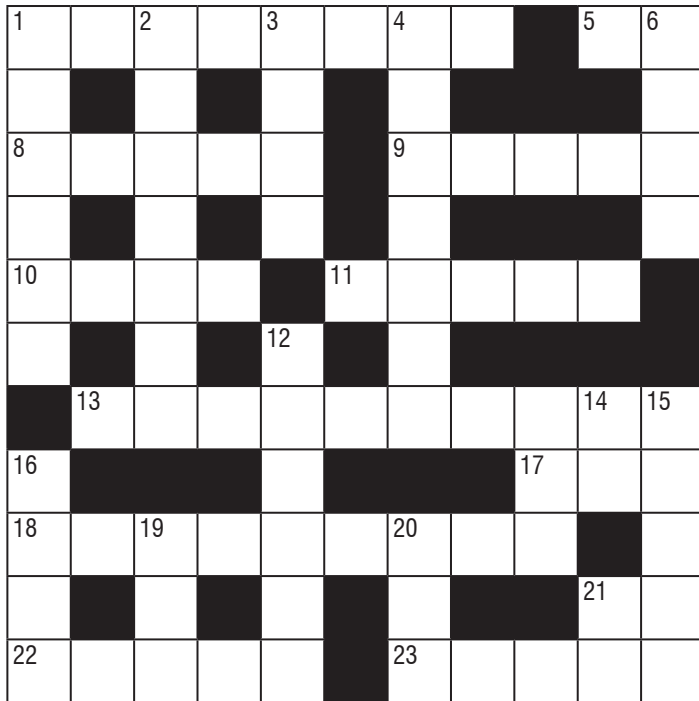


by
D. Kavya Sucharitha
II CSE



by
G. Tapaswi VNSL
II CSE

DISCOVERE



ACROSS

- 1 New large screen film encouraging girls to become engineers-2 words
- 5 System that can make a house hot or cold
- 8 Engineers learn how to ____ problems
- 9 Building support
- 10 Missing pieces
- 11 Very important, essential
- 13 Recreating a house or building
- 17 Through the means of
- 18 _____.org, a site encouraging kids to become engineers
- 21 Chemical symbol for silver
- 22 Word for the details of how a building is to be built
- 23 Area under a pitched roof

DOWN

- 1 Plan out
- 2 Shape like an elongated circle
- 3 Intersect, as two lines
- 4 Fill with confidence
- 6 Future ____: a program where you can build your ideal urban area

- 7 Thinking outside-the-box
- 12 Engines
- 14 Symbol for nickel
- 15 Estimate
- 16 Does sums
- 19 Look at and observe
- 20 Engineering degree, for short
- 21 Symbol for aluminum



Solutions to these puzzles will be revealed in our next edition. Don't miss it!

(Source: IEEE-USA E-BOOKS, Author : Myles Mellor)

The Discovery Zone

1 Research the matter

Have you ever wondered how we can identify substances around us, whether it's water, metals, or gases? Scientists use two important characteristics-**physical properties** and **chemical properties**-to study and classify matter. Let's explore what these properties mean and how they play a role in the real world.

Physical properties include aspects like color, odor, density, hardness, melting point, boiling point, and state (solid, liquid, or gas). These properties remain unchanged even when the substance undergoes a physical change, such as a change in state.



2 Real Life Scenario

Smartphone Screens: Modern smartphones use **gorilla glass**, a type of toughened glass. When the screen is scratched or bent slightly, it showcases the **hardness** and **elasticity** of the material, both of which are physical properties. Despite these changes in shape or minor deformation, the chemical composition of the glass remains unchanged.

Chemical properties include reactivity, flammability, oxidation, and the ability to form new compounds. These properties are essential in understanding how substances behave in chemical reactions and transform into something new.

3 Real Life Scenario

Baking a Cake: When a cake is baked, the heat causes chemical reactions between the ingredients (e.g., baking soda reacts with acid), producing carbon dioxide bubbles and new textures. This results in a chemical transformation of the original ingredients.



EtymoQuest

Where Did That Name Come From?

1. **Pepsi** - Derived from the word "dyspepsia," referring to indigestion.
2. **Google** - Based on the mathematical term "googol," meaning 1 followed by 100 zeros.
3. **Adidas** - A combination of the founder Adolf (Adi) Dassler's name.



(Source: BIZ WORLD | Author : Rajiv Makhni)

How Sharp Is Your Brain?

Our local town hall has a clock which strikes on the hour and also strikes just once on the half hour. While I was awake the other night, I heard the clock strike once, but I could not tell what time it was. Half an hour later it struck once again, but I still could not tell what time it was. Finally, half an hour later it struck once again and I knew what the time was. What time was it?



(Source: TEST YOUR ASSESS YOUR BRAIN QUOTIENT
Author : Philip Carter)

IQ test

What number should replace the question mark ?

2	3	5	8
1	5	6	11
3	8	11	19
4	13	17	?



Think you've solved it? Send your answers to sdsk_media@vignan.ac.in



A rapid-fire round to you!

- 1) Who tookover the Tata Group in December 2012 from Ratan Tata?
 - a) Noel Tata
 - b) Cyrus Mistry
 - c) Paalonji Mistry
 - d) Cyrus Tata
- 2) Mitsubishi manufactures cars like Lancer and outlander in India in collaboration with which company ?
 - a) Tata Motors
 - b) Bajaj Auto
 - c) Mahindra
 - d) Hindustan Motors
- 3) What Does SEBI Stand for?
 - a) Stock Exchange Board of India
 - b) Securities and Exchange Board of India
 - c) Securities Extended Board of India
 - d) Securities and Exchanges Bureau of India.
- 4) Which is the world's tallest man-made structure?
 - a) Taipei 101
 - b) Empire state
 - c) Burj Khalifa
 - d) Petronas Towers
- 5) Who was the top scorer of the Indian innings in the 2011 Cricket World Cup Final ?
 - a) Sachin Tendulkar
 - b) M S Dhoni
 - c) Virat Kohli
 - d) Gautam Gambhir

Did You Know?

By 2025, India will be the most densely populated country in the world? The country is projected to house 1.5 billion people, with grossly swollen cities. That means almost 1/5 of the planet will be living in the Indian peninsula! (Source: <http://www.gmi.org>)



Get ready for

a vibrant February - Event & Activities await!



Bala Mahotsav 2025
31st Jan - 1st Feb, 2025

Mahotsav 2025
6th - 8th Feb, 2025



**Taiwan Ambassador's
Special Visit to VIGNAN**
13th Feb, 2025



Call for Contributions to **VOICE OF VIGNAN**

Contact : **Mrs. Krishnaveni Suryadevara**, Vignan Media Cell, H-Block,
Mail : sdsk_media@vignan.ac.in

"Change is the end result of all true learning." - Leo Buscaglia

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To the readers



This month marks the initiation of a new journal, "Voice of Vignan" dedicated to showcasing innovative research and creative thought across diverse fields through different events. This initiative has been developed with the aim of providing students with a platform to express their ideas, share their academic achievements, and inspire intellectual engagement within our university community.

We hope this journal will not only enrich the magazine's offerings but also encourage more active participation from students and faculty in future editions.

We kindly invite readers and contributors to share their feedback and suggestions as we embark on this exciting new journey. Your support and encouragement are invaluable in making this endeavour a success.

Sincerely,



by
Sunanda Athota
Voice Journal Lead
III Biotechnology



సాంప్రదాయ

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