

VOICE VIGNAN *of*

SCIENCE | TECHNOLOGY | RESEARCH

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Onward **We go**
toward
new vistas



VIGNAN'S UNIVERSITY

<https://vignan.ac.in/newvignan/>



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From the Editorial Desk

“Dream, dream, dream. Dreams transform into thoughts, and thoughts result in action.”

— Dr. A.P.J. Abdul Kalam

Vignan University continues to shine as a center of innovation, collaboration, and inclusivity—steadily guiding students toward meaningful impact. This edition of VOICE reflects the university’s dynamic growth and its commitment to progress, both academically and socially, while making strides on the global stage.

Our recent strategic collaborations—such as the MoU with NIT Rourkela and the academic alliance with Gannon University—highlight Vignan’s ongoing efforts to build strong educational bridges across institutions and countries. These partnerships are more than just symbolic; they open doors to joint research projects, student and faculty exchanges, and innovative academic programs. They show how we are aligning with global educational standards while staying firmly rooted in our Indian ethos.

What’s even more inspiring is the surge of student-led innovation across our campus. The recognition our students received at Startup Mahakumbh—for designing smart, biodegradable sanitary napkins—is not just a university-level achievement. It’s a major step forward in addressing issues of health, sustainability, and social impact. Across domains like biotechnology, artificial intelligence, and beyond, our students are proving that education can indeed become a powerful agent of change.

We also embrace change in leadership, welcoming Dr. P.M.V. Rao as our new Registrar. With his deep experience and vision, we look forward to enhanced academic governance, stronger student engagement, and transparent, student-centered administration. At the same time, we express our gratitude to Dr. M.S. Raghunathan, whose tenure as Registrar helped establish a culture of integrity, excellence, and growth that will continue to shape our future.

Campus life at Vignan remains vibrant and multidimensional. Events like the Fit India Cycle Campaign, Zimbabwe Independence Day celebrations, and the Young Creators Program reflect our focus on holistic development—nurturing not only the intellect, but also values of discipline, curiosity, creativity, and global citizenship.

As we contribute to the national vision of Viksit Bharat, we are reminded that education is not just a path to personal achievement—it’s a way to build a stronger nation. Vignan’s inclusive, forward-thinking model ensures that every student leaves empowered to contribute confidently and meaningfully to that vision.

Let us step forward with shared purpose, unity, and a drive for lifelong learning. Every step we take together at Vignan echoes in the future we are building—collectively, with heart and intention.

Dr. M. Malakondaiah
Advisor, VFSTR



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A New Command Dr. P.M.V Rao takes charge as Registrar

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The ceremony, held at the VFSTR campus, symbolized the beginning of a promising collaboration aimed at enhancing academic synergy and fostering impactful research initiatives between the two esteemed institutions.



High-Tech Business Transformation

The Department of Management Studies at Vignan University, in collaboration with the Office of Industry Relations and Outreach, recently hosted a guest lecture on the impact of technology on business. The event featured Mr. Venkat Machavolu, Founder & CEO of iQuadra Information Services LLC, as the esteemed speaker.

During the lecture, Mr. Machavolu shared his expertise on the transformative role of technology in reshaping the business landscape. He emphasized the importance of technology in driving innovation and efficiency, highlighting its potential to enhance customer experience and stay ahead in the competitive market.

The discussion also explored the intersection of business strategy and tech trends, providing valuable insights into the latest industry developments. The session was informative and engaging, offering students and faculty a unique opportunity to learn from a seasoned industry expert.

The event aimed to provide practical knowledge and industry insights, bridging the gap between academia and industry. Mr. Machavolu's inspiring talk and willingness to share his experiences

were greatly appreciated by the audience.

The Department of Management Studies and the Office of Industry Relations and Outreach expressed gratitude to Mr. Machavolu for his valuable time and contributions to the event's success. The lecture was a resounding success, leaving a lasting impact on the students and faculty in attendance.



by
Jahnavi Kamepalli
II CSE - CS

Solid State Characterization of New Chemical Entities

A Value Added Course for Pharmacy Students

The Department of Pharmaceutical Sciences at Vignan University, in partnership with the Office of Industry Relations and Outreach, recently held a two-day value-added course titled “Solid State Characterization of New Chemical Entities.” The course aimed to bridge the gap between classroom learning and real-world industry practices, providing students with advanced insights into a crucial area of pharmaceutical sciences.

The sessions were led by Ms. Bandanadham Indraja, a Research Associate at Aragen Life Sciences. Her lecture was both informative and engaging, offering students a deeper understanding of the solid-state properties of chemical entities and their significant role in drug development. Drawing from her extensive experience in the industry, Ms. Indraja shared practical knowledge about analytical

techniques and their applications in pharmaceutical research, making complex concepts more accessible to aspiring professionals.

The course not only expanded students’ technical knowledge but also highlighted the importance of aligning academic learning with industry expectations. It served as a platform for students to connect theoretical concepts with practical applications, preparing them to meet the demands of the evolving pharmaceutical sector.

Vignan University expressed its sincere appreciation to Ms. Indraja for dedicating her time and expertise, turning the program into a valuable learning experience. Initiatives like these continue to play a vital role in equipping students with the skills and knowledge needed to excel in their careers while fostering a culture of continuous learning and innovation.



by
Srinikhi - II CSE

REGISTRING MEMORIES

Bidding Farewell to Dr. M. S. Raghunathan

Vignan University bids farewell to one of the most notable personalities, Dr. M. S. Raghunathan, who with utmost devotion served as the university's Registrar. It is under his remarkable leadership that the university prosper into achieving milestones and I do believe that his contributions are indeed deeply rooted into Vignan's continuous success.

Being one of the most leading personalities at the university's helm, the influence he has will remain for times to come, Dr. Raghunathan enhanced the operational prowess of the university but also its academic and infrastructural development. He achieved all of these incredible feats with his unparalleled vision into the educational and administrative growth of the university.

Dr. Raghunathan was resilient in fostering a culture of community, innovation, and excellence which positively helped all the students and faculty. With this, it has to be noted that he did everything with extreme

wisdom which lead him to positively leave a mark on the students and faculty. Being a wise man, he forged relationships and connections with everyone that worked at the university which indeed enabled him to leave an everlasting impression.

Best wishes are in order for Dr. M. S. Raghunathan as he transitions into a new chapter of his life. The mark he leaves with us will constantly remind us of his unparalleled dedication, vision, and integrity. While his leadership will definitely be missed and his legacy will continue to guide us for many years yet to come.

Everyone would agree that Dr. Raghunathan impact on 'Vignan University' can never be quantified, so too can never be forgotten, as grateful respects and contributions will continue to flow towards his name in the sands of time. This institution shall continue to expand and flourish with the 'visionary' which will remain as a chapter of successes of the university.



by
D. Kavya Sucharita
II CSE



Event @ A Glance

Cycling towards a Healthier Tomorrow



VFSTR Hosts **Fit India** Sunday Cycle Campaign

On May 4, 2025, VFSTR witnessed the commencement of the Fit India Cycle Campaign. It is an effort directed towards the overarching fit India Movement, which has also received support from the UGC. The outreach campaign's targets to increase an individual's active participation towards leading a healthier lifestyle. The specific focus of this cycling campaign was to promote physical fitness for the individual's health, and to decrease carbon footprint on the environment.

The event started at the A-Block, where the first large set of riders gathered, encouraging team spirit. The event ended at U-Block, which was the last stop provided for the riders, and encompassed all the major points around the VFSTR campus.

The people on one side of the campus and the other were able to look at the scenic views while participating in the event without risk of being harmed. One of the greatest things about the event has an impressive turnout of about 300 people, including students from both the VFSTR and Vignan adopted village schools, along with many community members.

To ensure the comfort and safety of each participant, the university made all the necessary arrangements to manage the cycling route. There were also designated points for hydration, medical aid and volunteers were present to offer assistance required.

Participants were applauded for their presence and motivating participation, which in turn fosters healthy routines in one's life. Faculty and the event coordinators held a

short talk at the wrap up where they relayed these remarks to the cyclists.

VFSTR has once more proven its dedication in achieving holistic development which goes beyond academics through the success of the Fit India Sunday Cycle Campaign. The sustained impact from this event is remarkable because people would look forward to continuing their fitness activities after the campaign, integrating cycling into their daily routines.



by
N. Praveen Sai
II CSE

A NEW COMMAND Dr. P.M.V RAO TAKES CHARGE AS REGISTRAR

Vignan's University is proud to welcome Dr. P.M.V. Rao as its newly appointed Registrar. With an extensive background spanning 26 years in both academic and administrative roles, Dr. Rao brings a wealth of experience and a forward-thinking vision to the institution.

Known for his unwavering commitment to academic excellence, Dr. Rao has consistently prioritized quality education throughout his career. His leadership has been instrumental in creating environments that promote rigorous learning, faculty development, and student success. His appointment is expected to further strengthen the university's academic framework and its reputation for excellence.

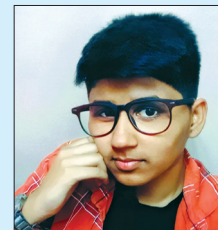
Transparency in administration is another key area where Dr. Rao has left a strong mark. He advocates for

open, accountable governance and efficient administrative practices, which align well with Vignan's focus on ethical and student-centered management. His approach is anticipated to enhance trust and collaboration among students, staff, and faculty alike.

Dr. Rao is also widely recognized for his encouragement of innovation in education. He supports the adoption of modern teaching methods and the integration of technology into the classroom, believing that innovation is crucial to preparing students for a competitive, global landscape.

With a clear vision for the future, Dr. Rao aims to elevate Vignan's University to greater heights on both national and international platforms. His leadership is expected to pave the way for strategic partnerships, research initiatives, and a dynamic academic culture.

The entire Vignan community looks forward to this new chapter under Dr. Rao's guidance and is confident that his tenure as Registrar will bring continued progress and distinction to the university.



Young Creators Program Shaping the Leaders of Tomorrow



From May 5th to 9th, Vignan University hosted the Young Creators Program, a five-day immersive initiative designed by the Office of Industry Relations and Outreach. The program aimed to offer students a unique blend of academic exploration, practical exposure, and personal development. The primary objective was to shape students into future-ready individuals equipped with essential skills like adaptability, collaboration, innovation, and self-awareness - qualities that are crucial in today's rapidly evolving world.

The program kicked off with a lively registration and an inspiring inaugural ceremony. Faculty members, coordinators, and special guests addressed the gathering, emphasizing the importance of holistic development beyond academics. Ice-breaking sessions and interactive group activities helped students connect across departments and backgrounds, fostering a sense of camaraderie and setting the stage for a week of learning and growth.

On the second day, students embarked on guided tours of Vignan's state-of-the-art research centers and labs. At the Agri Farm, they gained insights into sustainable agricultural practices and the role of technology in modern farming. In the Food Technology Lab, they observed advanced food processing techniques and quality control measures. The EEE Lab introduced them to smart grid systems and automation tools, sparking interest in emerging technologies in electrical engineering. The Drone Lab, with its futuristic prototypes, captivated students with demonstrations of unmanned aerial systems and their diverse applications. The visit to the Technology Business Incubator

(TBI) was particularly motivating, as students interacted with budding entrepreneurs and mentors, gaining a firsthand perspective on the journey from concept to startup.

Day three was centered on both academic enrichment and personal growth. Specialized academic sessions were offered in Mechanical Engineering, MBA, and Civil Services, allowing students to explore their interests and interact with experienced faculty. In parallel, life skills workshops focused on essential areas such as time management, leadership, and emotional intelligence. These sessions underscored the importance of balancing academic goals with personal development and mental well-being.

The fourth day was dedicated to communication skills and technological awareness. Spoken English sessions helped students improve their fluency, pronunciation, and public speaking, fostering greater confidence in expressing themselves. This was followed by an introduction to AI tools transforming education and industry, encouraging students to explore how these tools can assist in writing, research, and analysis. A session on psychology and critical thinking prompted students to reflect on their thought processes, recognize cognitive biases, and make more informed decisions.

The final day was a blend of energy and reflection. Team-based activities challenged students to apply what they had learned throughout the program, whether it was problem-solving, design thinking, or leadership in group settings. Career guidance sessions featured talks by industry professionals and

academic counselors, providing valuable insights into resume building, interview techniques, and aligning career choices with personal passions.

The week concluded with a Valedictory Ceremony where participants shared their experiences and personal growth stories. Certificates were awarded to all attendees, and outstanding performers were recognized for their leadership and active participation. The Young Creators Program left a profound impact on students, equipping them with more than just academic knowledge. They walked away with greater self-confidence, clearer career goals, and a renewed sense of purpose. Feedback from participants was overwhelmingly positive, with many expressing how the program had opened their eyes to new possibilities and shaped their perspectives on learning and self-development.

In essence, the Young Creators Program was more than just a week of activities - it was a transformative experience that underscored Vignan University's commitment to nurturing well-rounded, future-ready individuals. By combining academic learning with practical exposure, life skills, and career guidance, the program cultivated a new generation of confident, creative, and capable young minds ready to take on the world.



by
K. Venu Vardhan
IV AI & ML

Celebrating Culture with Unity

On April 18, Vignan University was filled with energy as students came together to celebrate the 45th Zimbabwe Independence Day. Organized by the Zimbabwean student community, the event welcomed both Indian and international students, creating a vibrant and inclusive atmosphere. It was not just an event—it was a sincere honor of the rich heritage and cultural identity of Zimbabwe, presenting an opportunity to everyone to feel and relate to the history of the country.

The celebration came alive with energetic traditional music and dance performances. Students dressed in colorful attire attract the audience, offering a glance into

Zimbabwe's cultural roots through rhythm and movement. The joyful energy on stage resonated with everyone present.

A highlight of the event was the traditional Zimbabwean clothing worn by the students. Each outfit reflected cultural pride and personal identity, turning the occasion into a living expression of heritage. The vibrant designs added color and meaning to the celebration.

Beyond entertainment, the event carried powerful messages. Zimbabwean students spoke about their nation's struggle for independence and those values such as freedom, unity, and resilience that have continued to inform their community until today. Their words

reminded everybody of the necessity of celebrating diversity and learning from each other.

By supporting this celebration, Vignan University once again demonstrated its commitment to fostering an inclusive, multicultural environment. The event was a clear example that learning doesn't just happen in classrooms it grows through shared experiences and genuine human connection.

by
A. Rishitha
II CSE



VIGNAN'S Summer Camp

A Joy of 7 Days

by
K. Trisha Sri
II CSE



The week-long Summer Camp was a lively and enriching experience that brought together hundreds of students in a celebration of sports, discipline, and personal growth. From morning till evening, the campus buzzed with energy as students eagerly participated in a variety of athletic and recreational activities designed to promote fitness, teamwork, and mental resilience.

The camp offered something for everyone. Athletics drew 272 participants, each pushing their limits in sprints, relays, and field events, all while building speed, focus, and endurance. The basketball sessions, attended by 270 students, focused on dribbling, passing, and strategic play. Hockey, with 446 participants, introduced students to stick handling and team coordination, while Kho-Kho, the most popular activity with 748 participants, was filled with fast-paced, strategic gameplay.

Taekwondo attracted 521 students, helping them develop discipline, confidence, and body control. Volleyball had

660 participants, who sharpened their coordination and teamwork through energetic matches. Yoga sessions saw 607 students practicing postures, breathing techniques, and meditation, providing a much-needed balance of relaxation and focus amidst the physical activities. To keep the students energized throughout the day, nutritious refreshments were provided—milk, a banana, and an egg in the mornings, followed by buttermilk and snacks in the evenings. The camp concluded with a vibrant Valedictory Ceremony on May 5th, 2025. All participants were recognized with certificates and gifts, celebrating their effort and enthusiasm. Distinguished guests addressed the students, delivering motivating talks on moral values and perseverance. It wasn't just a week of sports—it was a week of learning, growing, and coming together as a community. The Summer Camp left a lasting impact on every young mind, reinforcing the importance of physical fitness, teamwork, and the spirit of unity.



Youth Leadership in Governance

Viksit Bharat Vision Series



A Visionary Dialogue on Youth Empowerment and India's Journey Toward Development

On the morning of Sunday, April 20, 2025, the halls of Vignan's Foundation for Science, Technology & Research (Vignan University) came alive with purpose and pride. Hosting Episode 3 of the Viksit Bharat Vision Series, the university welcomed Shri Lavu Sri Krishna Devarayalu, Member of Parliament and a passionate proponent of youth empowerment, for an inspiring address and interactive session with students. The event, organized under the aegis of the Ministry of Youth Affairs and Sports, Government of India, was part of a broader national mission-to place India firmly on the path to becoming a Viksit Bharat by the year 2047.

India at the Crossroads of Destiny

India with a civilization older among various, today stands at a historic threshold redefining boundaries. As the country approaches its centenary of independence in 2047, it is undergoing a profound transformation-socially, economically, and ideological-

ly. With rapid technological advancements, a dynamic entrepreneurial ecosystem, and an empowered civil society, India is redefining what it



means to be a "developed nation." But this vision of Viksit Bharat-a self-reliant, prosperous, and inclusive India-is not just the responsibility of policymakers. It is a collective endeavor, with youth at its very core.

The Viksit Bharat Vision is a flagship initiative launched by the Government of India to build consensus and mobilize national efforts toward long-term, sustainable development. Its objectives include achieving a \$30 trillion economy, full digital literacy, net-zero emissions, universal healthcare and education, and establishing India as a global hub for innovation and manufacturing by 2047.

The Purpose Behind the Vision Series

The Viksit Bharat Vision Series serves as a nationwide platform to engage with students and youth leaders across the country. Its aim is not merely to inform, but to inspire action. Episode 3 at Vignan University was conceived to:

- Encourage critical thinking and visionary leadership among youth
- Clarify the multi-dimensional goals of a developed India
- Highlight the pivotal role of young citizens in national progress
- Cultivate a culture of active participation in nation-building

More than a lecture, the session was designed to be a dialogue-an exchange of ideas, experiences, and ambitions between policymakers and the next generation of changemakers.

What Does “Viksit Bharat” Truly Mean?

“Viksit Bharat” is more than a political vision-it is a moral, social, and economic commitment. It envisions an India that is:

- Economically robust, with thriving industries, universal job opportunities, and a digital economy accessible to all
- Technologically advanced, leading the world in AI, clean energy, biotechnology, space exploration, and innovation
- Socially inclusive, where every citizen has equitable access to education, healthcare, justice, and dignity
- Environmentally sustainable, committed to net-zero carbon emissions and resilient infrastructure
- Culturally grounded yet globally respected, harmonizing India’s timeless heritage with forward-thinking modernity

Through this mission, the Government of India is encouraging every institution, community, and individual to participate in shaping a future that honors India’s past while leading the world in values-driven development.

The Youth: Catalysts of Change

India’s demographic dividend is its greatest strength-over 65% of its population is under the age of 35. This is more than a statistic; it is a call to action.

To transform this potential into progress, youth must:

- **Lead innovation:** Drive breakthroughs in AI, sustainability, healthcare, and digital governance

- **Champion social justice:** Fight for inclusivity, gender equity, and rural development
- **Participate in democracy:** Stay informed, engage in civic debate, and hold systems accountable
- **Embrace global citizenship:** Learn, adapt, and collaborate across borders while staying rooted in Indian ethos
- **Uphold ethical leadership:** Prioritize integrity, service, and national interest in every endeavor

India’s rise will be shaped not by the wealth it accumulates, but by the values it upholds-and it is the youth who will embody those values.

Key Highlights from the Address by Shri Lavu Sri Krishna Devarayalu

The keynote delivered by Shri Devarayalu was a masterclass in clarity, conviction, and courage. In an electrifying address followed by a candid Q&A, he offered both visionary insight and pragmatic advice. “Viksit Bharat is not just about numbers-it’s about dignity,” he began. “The dignity of having access to quality education, meaningful employment, and the ability to dream without constraints. A developed India must ensure opportunity and justice for all.”

On the challenges ahead, he was honest but optimistic:

“Yes, we face deep challenges-climate change, unemployment, misinformation, income disparity. But India’s youth have never backed down from a challenge. If we stay united, focused, and ethical, there is no global summit we cannot scale.”

His message to students struck a chord:

“Don’t wait for perfect conditions to contribute. Begin where you are-with your ideas, your energy, your empathy. The government can set the stage, but it’s you who must perform. Let’s build a Viksit Bharat together-with courage, clarity, and compassion.”

When asked what role the youth should play, Shri Devarayalu responded powerfully:

“You are not the future-you are the present. Whether you are a coder, a teacher, a soldier, or an innovator-your actions today shape India’s destiny. We don’t just need skilled professionals; we need responsible citizens who care.”

A New Era Beckons: Viksit Bharat by 2047

The Viksit Bharat Vision Series - Episode 3 was not merely an event-it was a declaration of intent. It reinforced the belief that India’s most transformative years lie ahead, and that its youth are not passive beneficiaries of development, but active architects of it.

As we move toward 2047, the journey will demand more than just economic planning. It will require visionaries who can build institutions, leaders who can inspire communities, and citizens who understand that development begins with them.

The dream of Viksit Bharat is no longer aspirational-it is achievable, visible, and inevitable, provided we move forward with unity, urgency, and unwavering dedication.

Let us not wait for change. Let us be the change.

Together, let us shape a future worthy of our past. Together, let us build a Viksit Bharat.



by
Mukesh Pandey
I CSE



MEMORIES MEET MILESTONES

SAC Valedictory - 2025

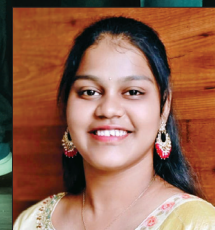
Student Activity Council (SAC) recently organized a great gathering to celebrate not only milestones but teamwork, innovativeness, and dedication. Rukmini ma'am felt satisfied with the spectacular progress of the entire team and termed it as an experience of pride with collective efforts.

The major input was added by all the team leads and their mentors. They reflected on the process of learning, the challenges they faced, and the collective strength that built the success of SAC over time.

The vibe was elevated through cultural performances. Spectacular Dances and wonderful songs entertained the audience, reflecting the awesome talent they possess in the student community. A live painting act held everyone spellbound at the artist's informal freestyling and creative expression. After a busy day, the whole SAC team congregated to enjoy a hearty and warm lunch, building some more love and appreciation among members. To add a special touch to the memories of the day, there was a special SAC core video played, showcasing the hardworking people behind each freezing moment that are challenging.

To add a personal touch to the occasion, Rachananjali Ma'am and Anirudh Sir were present to distribute the certificates. As always, their words of appreciation were very warm which captured the essence of collaboration and dedication that characterizes the SAC.

Team SAC masterfully showcased yet another memorable chapter of the journey and in the process brought together a range of emotions to the stage.



by G. Tapaswi VNSL, II CSE



Enriching Minds Beyond Borders

A Journey through the Student Exchange Mobility Program

The Student Exchange Mobility Program is a prestigious academic initiative that aims to foster international collaboration and knowledge exchange among students from diverse academic backgrounds. It offers students the opportunity to gain international exposure, explore new research environments, and engage in cultural learning beyond their home country. As part of this initiative, we had the privilege of participating in an academic visit to Universiti Malaysia Kelantan (UMK), Malaysia.

Our group consisted of six students—two from Food Technology and four from Biotechnology. From the very beginning of our journey, we were embraced with warmth and sincerity by the faculty, students, and staff at UMK. Their hospitality was exceptional, making us feel welcomed and supported throughout our stay. We participated in various academic sessions, lab work, industrial visits, and cultural activities. The Malaysian team ensured that we had a rich and balanced experience, both in academics and cultural understanding, and we are truly grateful for their generosity and kindness.

During my time at Universiti Malaysia Kelantan, I had the

opportunity to work in well-equipped laboratories where I was involved in fermentation experiments, particularly observing the production of pineapple and rambutan vinegar. I learned to handle various laboratory equipment such as pH meters, incubators, spectrophotometers, and fermentation vessels. This hands-on experience deepened my understanding of microbial activity, fermentation control, and quality testing—core areas in Food Technology.

These skills and exposures have not only enhanced my practical knowledge but also boosted my confidence to pursue a career in food product development, quality assurance, or research and development in the food industry. The international exposure has also prepared me to work in cross-cultural and global professional environments in the future. This opportunity would not have been possible without the continuous support and encouragement from Vignan's Foundation for Science, Technology and Research (Deemed to be University).

Our university not only facilitated this international exchange but also guided us in every step of preparation and participation. The International Relations Office

and our faculty mentors worked tirelessly to ensure that we had a safe, productive, and meaningful experience abroad. Vignan University's vision of global academic exposure has helped us grow both personally and professionally.

In continuation of this collaborative exchange, we are now delighted to welcome nine students from Universiti Malaysia Kelantan to our campus in India. They are currently exploring the laboratories, departments, and culture of Vignan University as part of the second phase of this Student Exchange Mobility Program. It gives us great pride and joy to host them, return the hospitality we received, and share the essence of Indian academic and cultural life.

We extend our heartfelt gratitude to both Universiti Malaysia Kelantan and Vignan University for making this exchange possible. This program has not only expanded our academic horizons but also strengthened the bonds of friendship and mutual respect between our institutions. We look forward to many such international collaborations in the future that continue to inspire and empower young minds.

by
Sadam Naga Divya
Food Tech.



Strategic Academic Alliance

Between VFSTR and NIT Rourkela

On April 11th, 2025, Vignan's Foundation for Science, Technology, and Research (VFSTR) took a significant step toward advancing academic and research excellence by signing a Memorandum of Understanding (MoU) with the National Institute of Technology (NIT), Rourkela. The ceremony, held at the VFSTR campus, symbolized the beginning of a promising collaboration aimed at enhancing academic synergy and fostering impactful research initiatives between the two esteemed institutions.

The event was attended by notable dignitaries from both institutions. Representing NIT Rourkela was Prof. Rohan Dhiman, the Registrar, who emphasized the importance of such alliances in shaping the future of higher education. VFSTR was represented by Cmdr. Dr. MS Raghunathan, Registrar; Colonel Prof. P. Nagabhushan, Vice-Chancellor; and Prof. Vijaya Ramu Dirisala, Dean – Promotions, Collaborations, and Faculty Affairs. Their presence underscored the commitment of both institutions to work collaboratively toward common goals.

The primary objective of this MoU is to promote excellence in education and research through joint initiatives that will benefit students, faculty, and researchers alike. The collaboration is set to focus on key areas such as student internships and faculty exchange programs, which will provide invaluable experiential learning and professional development opportunities. Additionally, both institutions plan to work



on collaborative research projects and joint publications, encouraging interdisciplinary studies and impactful research outcomes.

Another vital aspect of this partnership includes exploring funding opportunities for research and co-hosting academic events such as workshops and conferences. These initiatives are expected to provide a platform for sharing knowledge, resources, and innovative ideas. The MoU also includes the development of new academic programs that align with emerging industry and educational needs, thereby preparing students for the evolving global landscape.

The anticipated benefits of this collaboration extend beyond academic gains. By opening new avenues for learning and fostering a culture of academic excellence, both VFSTR and NIT Rourkela aim to contribute significantly to the broader academic community. The partnership is expected to drive

innovation, encourage knowledge dissemination, and strengthen the research ecosystem of both institutions. This agreement aligns with VFSTR's vision of building strategic partnerships that promote academic growth and societal impact. With NIT Rourkela's reputation for excellence in technical education and research, this collaboration is poised to create a lasting impact on the higher education landscape in India. The MoU represents more than just a formal agreement; it is a commitment to nurturing academic excellence, promoting interdisciplinary research, and fostering educational innovation that will shape the future of higher education.

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



Our Futurepreneurs @ Startup Mahakumbh

Vignan students secure III place



A Triumph of Innovation and Purpose

This prestigious recognition reflects the relentless hard work, creativity, and determination of Vignan's students, the constant guidance of passionate mentors, and the unwavering support of the institution. The team's success is not just a win for Vignan—it is a step forward in the national conversation around women's wellness, menstrual hygiene, and environmental sustainability.

The Innovation: Smart, Sustainable Sanitary Napkins

The student-led team developed a biodegradable, eco-friendly sanitary napkin with advanced functionality, offering both physical comfort and intelligent health tracking.

Prototype 1 - Natural Comfort, Scientific Impact

Designed with seven breathable layers, this prototype is made entirely from plant-based biodegradable materials. The pad is infused with magnesium ions, which help regulate prostaglandin levels upon contact with the skin, aiming to reduce menstrual cramps and discomfort naturally.

Prototype 2 - Smart Health Monitoring

The second prototype incorporates a decomposable strip embedded

with AI-compatible sensors. These sensors can detect hormonal imbalances and provide early indications of PCOD and PCOS-related issues, offering a non-invasive and affordable solution to millions of women.

Why This Innovation Matters

- 100% Biodegradable & Plant-Based
- Breathable Layers for Rash-Free Experience
- Eco-Friendly and Sustainable
- AI Integration for Hormonal Health Monitoring
- Cost-Effective and Accessible

In a country where menstrual health is still a taboo topic and sustainable alternatives are rare, this project brings together innovation, inclusivity, and impact-bridging the gap between technology and basic hygiene needs.

Voices from the Team

"Our goal was to create something that not only solves a real-world problem but also leaves a positive impact on both the environment and women's lives. We are honored to represent Vignan at such a prestigious platform."

- Team Lead, Vignan Futurepreneurs

Institutional Support and Vision

Vignan Group has long championed innovation-driven learning. This

win reaffirms its role as a nurturing ground for young changemakers, encouraging interdisciplinary solutions and real-world application of knowledge.

Dr. Lavu Rathaiah, Chairman of Vignan Group, expressed his appreciation:

"Our students continue to demonstrate that with the right mentorship and mindset, innovation can create meaningful social change. This project is a proud reflection of Vignan's mission to empower through education and entrepreneurship."

The Road Ahead

With this recognition, the team is now preparing to scale their prototypes and explore collaborations for clinical testing, production, and deployment. Their vision is clear: affordable, accessible, and intelligent menstrual care for every woman in India and beyond.

Together, we innovate. Together, we inspire. Together, we are Vignan



by
D. Varsha
II Biotechnology

VIGNAN SHAKES HANDS WITH GANNON

An Inter-Institutional Collaborative Alliance

In a move to strengthen international academic connections, Dr. C. Agarwal Mahesh from Gannon University, USA, visited Vignan's University to deepen ties, particularly in the field of mechanical engineering. This visit follows an insightful interview conducted by Vignan students with Dr. Mahesh last month, marking a crucial step toward expanding global opportunities for both students and faculty.

A significant outcome of this visit is the introduction of a comprehensive Faculty Exchange Program. This initiative will enable faculty members from both universities to share their expertise, adopt innovative teaching methods, and foster a richer

academic environment through mutual learning. Additionally, the collaboration emphasizes Joint Research Initiatives, encouraging joint projects in engineering and other areas of shared interest. This initiative not only aims to advance research capabilities but also seeks to bring impactful solutions to real-world problems through collaborative efforts.

The partnership also brings forth an exciting Twinning Degree Program, allowing students to complete two years at Vignan and two years at Gannon University. This program provides students with the opportunity to earn an internationally recognized degree while gaining invaluable global

exposure and diverse academic experiences.

This alliance between Vignan's University and Gannon University is more than just an academic partnership—it's a gateway to international learning, cross-cultural interaction, and broader career prospects, creating a truly global educational experience for aspiring engineers.



by
Sri Teja
II CSE



On the Continental Dais, Refereeing for the Asian Yogasana Summit

In a moment of immense pride for Vignan University, Mr. B. Raghavendra, Yoga Coach, represented India as an International Technical Official at the 2nd Asian Yogasana Sport Championship 2025. Held from April 25th to 27th at the Indira Gandhi Indoor Stadium in New Delhi, the prestigious event brought together athletes from 21 Asian nations. Organized by Asian Yogasana and hosted by Yogasana Bharat, the championship was recognized by the Olympic Council of Asia and supported by the Ministry of Youth Affairs & Sports and the Sports Authority of India (SAI), underscoring its global significance.

Mr. Raghavendra was one of the 48 International Technical Officials who played a crucial role in ensuring fair and accurate judging across 12 competitive events. His expertise was particularly valuable in implementing the Technical Scoring and Ranking (TSR) System, a cutting-edge technology introduced for the first time in the championship's history. Developed by the tech wing of World Yogasana, this system enabled real-time and objective scoring, setting a new standard for transparency and accuracy in the sport.

Throughout his career, Mr. Raghavendra has consistently contributed to the Yogasana community, serving as a Technical Official at major events like the Sub-Junior, Junior & Senior Nationals, Khelo India Youth & University Games, and the ASMITA Women League, among others. At the valedictory ceremony, he was honored in the presence of Union Minister of State for Corporate Affairs, Shri Harsh Malhotra, along with other prominent dignitaries.



Representing India with pride and precision, Mr. B. Raghavendra stands tall on the Asian stage - a symbol of integrity, focus, and excellence in Yogasana officiating.

The felicitation ceremony was held in the esteemed presence of Union Minister of State for Corporate Affairs, Shri Harsh Malhotra, along with other distinguished dignitaries.

His participation and recognition at this esteemed international event serve as an inspiration to the entire Yogasana community and young practitioners.

A Journey of Dedication, Passion and Love:

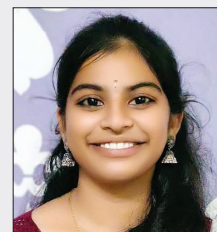
Over the past three years at Vignan University, Mr. Raghavendra has dedicated himself to empowering students through Yogasana, GMCKS Pranica Healing, and inner discipline. He has guided over 40

students in Pranica Healing and coached his Yogasana students to achieve more than 100 medals at district, state, and national levels. Beyond the campus, his influence extends globally - he has coordinated Yogasana Championships across India, trained athletes in countries like Uganda, Burundi, Tanzania, Kenya, the Netherlands, and the USA, and even traveled to Uganda to serve as a Technical Official, Mentor, and Resource Person for the 1st Uganda National Yogasana Championship and National Level Judges Training Programs.

In his ever grateful words :

"I am truly grateful to my beloved parents, the Supreme God, my Satguru, all my Gurus, my Students, VFSTR and my well-wishers for their priceless blessings and constant support throughout this journey."

Mr. Raghavendra's dedication and passion for Yogasana have not only elevated the sport but also brought immense recognition to Vignan University. His unwavering commitment to nurturing young talent and promoting the essence of Yogasana serves as a true inspiration for aspiring athletes and students alike. We extend our heartfelt congratulations to him for this remarkable achievement and for his continued efforts in uplifting the Yogasana community at both national and international levels.



by
K. Gayathri
II Bioinformatics

Engineering Life's Blueprint

RNA-Guided Evolution with CRISPR and Beyond

Life on Earth is built upon a fundamental blueprint -DNA- where tiny molecular machines dictate everything from survival to adaptation. The classification of life forms is broadly split into prokaryotes and eukaryotes. Prokaryotes, including bacteria and archaea, are single-celled organisms lacking membrane-bound organelles, while eukaryotes, such as plants and animals, exhibit highly organized cellular structures with specialized compartments.

DNA serves as the blueprint for life, orchestrating various biological functions much like a well-structured society where different industries contribute to overall stability. Among them, security plays a crucial role in ensuring survival. Just as security forces protect nations by identifying and neutralizing threats, DNA has evolved sophisticated defense mechanisms over millions of years. RNA-guided systems, in particular, serve as molecular sentinels, recognizing and eliminating harmful elements to safeguard genomic integrity and maintain cellular function.

Over the years, researchers discovered that RNA-guided systems, initially found in

prokaryotes, function as genomic security mechanisms, protecting cells from viral infections. One of the most famous is CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats), which earned Emmanuelle Charpentier and Jennifer Doudna the Nobel Prize in Chemistry (2020) for their groundbreaking work on CRISPR-Cas9 genome editing. This tool enables precision DNA modification, revolutionizing biotechnology and medicine.

The power of CRISPR is not limited to medicine. In agriculture, India recently released two genome-edited rice varieties-Pusa DST Rice 1 and DRR Dhan 100, developed by IARI and IIRR using CRISPR-Cas9. These rice strains exhibit enhanced resistance to pests and climate stress, marking a significant milestone in food security efforts.

Understanding the Foundations of RNA-Guided Systems

DNA - The Blueprint of Life:

Imagine a high-tech city, meticulously designed with interconnected systems ensuring stability and function. At its core lies the city's master blueprint-a

centralized code that governs everything. In biological terms, DNA (deoxyribonucleic acid) serves as this blueprint, encoding the instructions for life's processes.

DNA exists in a double-helix structure, much like a spiral staircase. Each "step" of this staircase is formed by base pairs-adenine (A) pairing with thymine (T), and cytosine (C) pairing with guanine (G). These sequences act like encrypted code, carrying genetic information that determines everything from physical traits to cellular behavior.

However, DNA alone cannot function. Just like a blueprint requires engineers to construct buildings, RNA (ribonucleic acid) acts as the functional messenger, helping translate genetic instructions into real-world biological functions.

RNA - The Messenger and Regulator:

While DNA holds the master plan, RNA acts as its messenger, transporter, and regulator. Functional DNA sequences are transcribed into RNA transcripts, but not all RNA translated into proteins-many have specialized roles beyond protein synthesis.

Major Types of RNA include:

1. **Messenger RNA (mRNA):** Directly carries DNA's instructions to create proteins.
2. **Transfer RNA (tRNA):** Helps assemble amino acids into proteins.
3. **Ribosomal RNA (rRNA):** Forms part of the ribosome, the machinery that builds proteins.
4. **Non-coding RNA (ncRNA):** Has regulatory roles, influencing gene expression rather than producing proteins.
5. **Guide RNA (gRNA):** Plays a critical role in RNA-guided systems like CRISPR, directing proteins (endonucleases) to specific genetic sequences for modification.

These RNA types dictate cellular function, much like different city departments managing infrastructure, transportation, and security systems.

Protein - The Functional Machinery:

Once RNA delivers genetic instructions, the next step is protein synthesis. The ribosome deciphers mRNA sequences, assembling amino acids into specific proteins that serve as functional components of cells. Proteins are molecular machines that perform vital cellular tasks, from enzymatic reactions to structural support. Among these, Cas enzymes are synthesized through this process and become essential molecular tools in CRISPR-Cas RNA-guided systems. These enzymes, particularly endonucleases like Cas9, Cas12, and Cas13, work in conjunction with guide RNA (gRNA) to recognize and precisely modify DNA sequences, facilitating genome editing, repair, and defense mechanisms.

This interplay of RNA and proteins forms the foundation of CRISPR-based RNA-guided systems, helping organisms protect their genetic integrity-much like an AI-driven security system actively detecting and neutralizing cyber threats

Evolutionary Link Between CRISPR and OMEGA RNA-Guided Mechanisms Across Life Domains:

Imagine a high-tech security network in a futuristic city. This system doesn't just respond to intrusions-it intelligently detects, memorizes, and eliminates threats before they compromise stability. Just as cybersecurity systems defend digital infrastructure, RNA-guided systems safeguard the genetic code of living organisms.

At the heart of these biological security systems lies CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats), originally discovered in prokaryotic organisms like bacteria and archaea. This system consists of CRISPR-associated (Cas) proteins and short RNA molecules that guide the machinery toward specific target DNA sequences.

Here's how it works step-by-step:

1. **Recognition & Memory Storage** - When a virus infects a bacterium, CRISPR stores fragments of the invader's genetic material in its genome, creating a memory archive for future defense.
2. **Defense Activation** - When the same virus attacks again, CRISPR transcribes the stored sequences into RNA, known as guide RNA (gRNA).
3. **Target Identification** - The gRNA binds to the invading viral DNA, acting like an encrypted access key that perfectly matches the intruder's genetic sequence.
4. **Elimination via Endonuclease Action** - Once the match is verified, a Cas protein (an RNA-guided endonuclease) cleaves the viral DNA, stopping the infection.

This entire process ensures genetic stability, protecting organisms much like an AI-driven cyber-defense system blocks unauthorized access to sensitive networks.

The Cas proteins are the backbone of RNA-guided systems, functioning as precision molecular scissors. Among them, Cas12 and Cas13 are particularly crucial:

- Cas12 targets double-stranded DNA, cutting it at precise points.

- Cas13 focuses on RNA molecules, disrupting viral replication.

These proteins do not work alone-they rely on guide RNA (gRNA) to pinpoint the exact genetic sequence that needs to be targeted. The gRNA binds to the Cas protein to form an RNA-protein complex, which functions like an AI-enhanced surveillance drone, capable of recognizing specific genetic sequences with unmatched precision.

A newly identified class of prokaryotic RNA-guided systems, termed Obligate Mobile Element Guided Activity (OMEGA), has been reported as the evolutionary precursor to CRISPR-Cas systems. The OMEGA effector TnpB is hypothesized to have given rise to the single RNA-guided endonuclease Cas12. Furthermore, TnpB is proposed to be the ancestral origin of eukaryotic transposon-encoded Fanzor (Fz) proteins, suggesting that eukaryotes may also harbor CRISPR-Cas or OMEGA-like programmable RNA-guided endonucleases.

A research team from the Broad Institute of MIT and Harvard has published a study titled "*Fanzor is a eukaryotic programmable RNA-guided endonuclease*", in which they present the biochemical characterization of Fz. Their findings demonstrate that Fz functions as an RNA-guided DNA endonuclease, capable of precise genetic targeting. Structural analysis of *Spizellomyces punctatus* Fz via cryogenic electron microscopy (2.7 Å resolution) reveals conserved core regions among Fz, TnpB, and Cas12, despite variations in cognate RNA structures.

Ultimately, the study concludes that Fz represents a eukaryotic OMEGA system, establishing that RNA-guided endonucleases are present across all three domains of life. This discovery expands our understanding of RNA-guided mechanisms beyond prokaryotic systems and opens new avenues for genome engineering applications.



by
Dr. L. Srinivasa Raju
Cancer Research

PUBLICATIONS

Publications - High Impact Factor Journals in April 2025



S. No.	Department	Name of the employee	Indexing	Title of Article	Journal Name	Impact factor
1	Basic Sciences and Humanities	Dr. S. Hanumantha Rao	SCIE	An integrated MCDM approach using double normalization: introducing the DN-WENSLO and DN-RPEM methods for socio-economic performance evaluation	Journal of the Operational Research Society	6.3
2	ACSE	Dr. Sivadi Balakrishna	Scopus	A Two-Stage Deep Learning Approach for Optimizing Fashion Product Recommendations	SN Computer Science	4.34
3	CSE	Dr. Saubhagya Ranjan Biswal	SCI	Optimized Placement of Distributed Generators, Capacitors, and EV Charging Stations in Reconfigured Radial Distribution Networks Using Enhanced Artificial Hummingbird Algorithm	ASME Thermal Science and Engineering Applications	3.8
4	Pharmacy	Dr. Mithun Rudrapal	Scopus	Synthesis, toxicity and antioxidant activity of phenolic benzimidazole derivatives: In vitro and in silico studies	Chemical Physics Impact	3.8
5	CSE	Dr. D. Yakobu	Scopus	Selective search based gabor wavelet for fabric defect prediction using enhanced R-CNN	Journal Of Information Systems Engineering and Management	3.4
6	Basic Sciences and Humanities	Dr. S. Vinoth	SCI	Assessing Regional Health and Environmental Outcomes Using Weighted Neutrosophic Similarity Measures a Benchmarking Approach for Sustainable Development	Sustainability	3.3
7	Pharmacy	Dr. Mithun Rudrapal	Scopus	Medical gas fuse quickly and gently eliminates cerumen	Medical Gas Research	3
8	Basic Sciences and Humanities	Dr. A. Selvam	SCIE	Results on UlamHyers stability of nonlinear Chen system with fractional-order derivative	Asian Journal of Control	2.7
9	Pharmacy	Dr. Sibbala Subramanyam	SCI	Synthesis anti-fungal activities and in silico studies of triazolbenzimidazole hybrid molecules	Synthetic Communications	2.5
10	Basic Sciences and Humanities	Dr. N. Santhosh	SCI	Heat transfer optimization on convective flow of various fluids inside an enclosure with curved heat source	Zamm - Journal of Applied Mathematics and Mechanics	2.3
11	Pharmacy	Dr. Mithun Rudrapal	SCIE	Design, Synthesis, InVivoAntimalarialActivity, and In SilicoStudies of Sulfonamide-Alkanamido Thiazole-5-Carboxylate Derivatives	Chemistry and biodiversity	2.3

S. No.	Department	Name of the employee	Indexing	Title of Article	Journal Name	Impact factor
12	Basic Sciences and Humanities	Dr. Sannu Venkateswarlu	SCIE	Optimization of 3D hydromagnetic Casson fluid flow over a permeable stretching surface using RSM and AI	Journal Of Radiation Research and Applied Sciences	1.7
13	Mechanical	Dr. Sanjay Kumar Gupta	SCI	ASME Thermal Science and Engineering Applications	ASME Thermal Science and Engineering Applications	1.6
14	Basic Sciences and Humanities	Dr. N. Santhosh	SCI	Analyzing Thermal Performance of Nanofluids in an Inclined Square Enclosure with Quadratic Natural convection: Applications in Solar Energy and Electronic Cooling	Fluid Dynamics Research	1.5
15	Mechanical	Dr. Ajoy Kumar Nandy	SCIE	Solid/porous compound wavy fins bifurcation at crest and trough in the microchannel heat sink: thermo-hydraulic performance	Asia pacific journal of chemical engineering	1.447
16	Basic Sciences and Humanities	Dr. M.V.K. Sri Vani	ESCI	Identification and Structural Elucidation of a Potential Citric Acid and Caprolactam Adduct Impurity in Aminocaproic Acid Injection Using Preparative Chromatography, LCMS, and NMR	Separation Science Plus	1.3
17	CSE	Dr. Md Oqail Ahmad	SCIE	Systematic Review of Advanced Machine Learning Algorithms for Optimizing Quality of Service Parameters in Cloud Computing Environments	Asia Pacific Journal of Chemical Engineering	1.26
18	Pharmacy	Dr. Prathap M	SCIE	A DoE Study for Optimization of Control Quality Attributes and Critical Material Attributes in Development of Almotriptan Fast Dissolving Tablet for the Enhancement of Effective Surface Area	Indian Journal of Pharmaceutical Education and Research	0.8
19	Pharmacy	Dr. Prathap M	SCIE	Casting a Spotlight on Factorial Design: Exploring the Power of DoE for Experiment Screening and Optimization: A Mini Review	Indian Journal of Pharmaceutical Education and Research	0.8
20	ACSE	Dr. P.M. Benson Mansingh	Scopus	Federated Learning Enabled Wireless Sensor Architecture for Secure and Intelligent Brain Surgery Monitoring	Journal of Neonatal Surgery	0.16
21	Mechanical	T Ch Anil Kumar	ABDC	The Future of Work How AI and Automation Are Transforming HR Practices	Advances in Consumer Research	0.1
22	Chemical	Dr. P. Bangaraiah	SCIE	A comprehensive evaluation of a bioanalytical technique for Encofenib and Cetuximab combination Cancer therapy by LC-MS/MS and their pharmacokinetics in plasma	Journal of Chromatography B	0.1
23	MBA	Dr. S. Gopi Srinivasa Rao	ABDC	A Comparative Analysis of Talent Management Strategies and Their Impact on Employee Retention and ROI in Indias Leading IT Companies	Journal of Informatics Education and Research	0.1

Patents Filed in April and May 2025 by Departments



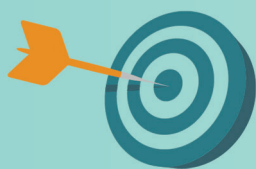
S. No.	TITLE	INVENTORS	DEPARTMENT	JOURNAL
1	Formulation of Nutrient-Rich Fish Feed for Improved Aquaculture Productivity	1.Dr. M. Indira 2. Ms. B. Sudarsini 3.Ms. N. Maneesha 4. Ms. N. Manaswini 5. Dr. T.C. Venkateswarulu	Department of Biotechnology(all are same)	Indian Patent Journal
2	Starfruit Digestive Gummies: Nourishing Digestion and Wellness	1. Dr. M. Indira 2. Dr. T.C. Venkateswarulu 3.Ms. B. Sudarsini 4.Ms. T. Gayathri Prasanna Lakshmi 5. Ms. M. Navya	Department of Biotechnology(all are same)	Indian Patent Journal
3	LumeElan Probiotic Ferment Deodorant – Freshness Refined with Elegance	1.G.B.V. Sai Teja 2.Dr. M. Indira 3. Dr. K. Abraham Peele 4.Vishesh Mankotia	Department of Biotechnology(all are same)	Indian Patent Journal
4	Nutritional benefits of Wolffia globosa: A Novel approach to vitamin and protein enrichment in Cattle	1.Dr. M. Indira 2.Dr. K. Abraham Peele 3.Shaik Harshad 4.Syed Nazia	Department of Biotechnology(all are same)	Indian Patent Journal
5	Eco-Friendly Cement Substitute: Ternary Concrete with Fly Ash and Ground Granulated Blast Furnace Slag for Superior Strength and Durability	1. Dr. Davuluri Syam Babu 2. Dr. Kunamineni Vijay	1.Assistant Professor, Biotechnology Department School of Biotechnology and Pharmaceutical Sciences. 2.Associate Professor, Department of Civil Engineering	Indian Patent Journal
6	Numerical Investigation of Fin Inclination Effects on Natural Convection Heat Transfer Using CFD	1.Sk. Farooq	Department of Mechanical Engineering	Indian Patent Journal
7	Analysis of Heat Transfer Characteristics in Heat Sinks: Influence of Velocity Ratios in Impinging Turbulent Jets	1.D. Vinay Kumar 2.Farooq. Sk 3.Amaramatha Reddy 4. Vamsi Krishna	Department of Mechanical Engineering (all are same)	Indian Patent Journal
8	Evaluation of SI Engine Performance, Combustion, and Emissions Using Ethanol-Gasoline Blends with ZnO Nanoparticle Additives	1.Vinay Kumar Domakonda 2.Shaik Farooq	Department of Mechanical Engineering (all are same)	Indian Patent Journal
9	Assessment of Lanthanum Zirconate Thermal Barrier Coating on Diesel Engine Performance and Emission Characteristics with Biodiesel	1.Vinay Kumar Domakonda 2.PDevendra Reddy 3.Shaik Farooq	1,3 Department of Mechanical Engineering 2.Department of Applied Engineering	Indian Patent Journal
10	Experimental Evaluation of an SI Engine Operating on E10 Equivalent Ternary Gasoline-Alcohol Blends	1.Shaik Farooq 2.Vinay Kumar Domakonda	Department of Mechanical Engineering(all are same)	Indian Patent Journal
11	Integrated Computational and Experimental Workflow for Dual COX-1/COX-2 Inhibitor Development	1.Amaze Mathe 2.Abraham Peele Karlapudi	Department of Biotechnology(all are same)	Indian Patent Journal
12	Method for Producing Magnesium Titanate via Sea Water Bitterns-Derived Magnesium Precursors	1.Dr. Vijetha Ponnamm 2.Mr. Solomon Godwin Babu N.D 3.Dr. Nagesh Chaganti, R. V. S 4.Dr. Subbaiah Tondepu	1,2,4 Department of Chemical Engineering. 3 Defence Metallurgical Research Laboratory	Indian Patent Journal
13	Innovative Use of Sea Water Bitterns-Derived Dielectric Substrate in Microstrip Patch Antenna Design	1.Mr. Solomon Godwin Babu N.D 2.Dr. Vijetha Ponnamm 3.Dr. Subbaiah Tondepu 4.Dr. Arka Bhattacharyya 5.Mr. Dasari Ravikumar	1,2,3 Department of Chemical Engineering. 4,5 Department of Electronics and Communication Engineering	Indian Patent Journal

S. No.	TITLE	INVENTORS	DEPARTMENT	JOURNAL
14	Method for Producing Hydrocarbon Fuels from Non-Recyclable Plastics Using Acid- and Base-Treated Zeolite Catalysts	1.Mr. Solomon Godwin Babu N.D 2.Ms. S.P ShanmugaPriya 3.Dr. Vijetha Ponnamm 4.Dr. Subbaiah Tondepu	Department of Chemical Engineering(all are same)	Indian Patent Journal
15	Heteroatom-Doped Biochar Composite Infused with Anabaena oryzae and Nostoc entophyllum for Sustainable Soil Enhancement	1. D. John Babu 2.Dr. M. Indira	Department of Biotechnology(all are same)	Indian Patent Journal
16	System and Method for Plant Leaf Disease Classification Using Zero-Shot Learning	1. Dr. Gayatri Ketepalli 2. Dr. K. Santhi Sri 3.Mr.Sayyad Irfan 4.Mrs.P Sandhya Krishna	1,2,3. Department of CA 4.Dept.of Information Technology	Indian Patent Journal
17	Intelligent License Plate Recognition Framework for Real-Time Smart Traffic Monitoring	1. Dr. Gayatri Ketepalli 2. Dr. K. Santhi Sri 3.Mr.A. N. Harshith Vardhan 4.Dr. V. Pavani	1,2,3. Department of CA 4.Dept.of Information Technology	Indian Patent Journal
18	Machine Learning-Based System for Assessment of Depression and Quality of Life in Healthcare Applications	1. Dr. K. Santhi Sri 2. Dr. Gayatri Ketepalli 3.VENKATA BHUJANGA RAO MADAMANCHI 4.Mrs.P Sandhya Krishna	1,2.Department of CA 3,4.Dept.of Information Technology	Indian Patent Journal
19	Method and System for Brain Tumor Detection and Classification from MRI Images Using EfficientNetB0 Architecture	1. Dr. Gayatri Ketepalli 2. Mr. B. Naga Sudheer 3.Mr.K.Raghavendra Murali 4.Dr. V. Pavani	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of IT	Indian Patent Journal
20	System and Method for Predicting Diabetes Using Optimized Machine Learning Algorithms	1. Mr. B. Naga Sudheer 2.Dr.K.Santi Sri 3. Dr. Gayatri Ketepalli 4.Mr. P.Rahul	1. Department of IT 2. Department of CA 3. Department of CA 4. Department of CA	Indian Patent Journal
21	Machine Learning Framework for Detection and Evaluation of Fake News Content	1. Dr. Gayatri Ketepalli 2. Mrs. Ragam Padmaja 3. Mr. B.Praveen Kumar 4. Mr. Irfan Sayyad	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of CA	Indian Patent Journal
22	System for Exploratory Data Analysis of Artificial Intelligence Job Market Trends Using Machine Learning Techniques	System for Exploratory Data Analysis of Artificial Intelligence Job Market Trends Using Machine Learning Techniques	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of CA	Indian Patent Journal
23	Machine Learning-Based Framework for Exploratory Analysis of Healthcare Datasets	1. Dr. Gayatri Ketepalli 2. Dr. Srikanth Yadav M 3.Ms. K.Lakshmi Thanuja 4. Mr.K.Raghavendra Murali	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of CA	Indian Patent Journal
24	System and Method for Facial Emotion Recognition Using Deep Learning-Based Models	1. Dr. Gayatri Ketepalli 2. Mrs. Ragam Padmaja 3.Mr. B. Naga Sudheer 4.Dr.E.Deepak Chowdary	1. Department of CA 2. Department of IT 3. Department of IT 4. Department of CSE	Indian Patent Journal
25	Hybrid Machine Learning and Deep Learning System for Stock Market Price Forecasting	1. Mr. B. Naga Sudheer 2. Dr. Gayatri Ketepalli 3.Dr.K.Santi Sri 4.Dr. Srikanth Yadav M	1. Department of IT 2. Department of CA 3. Department of CA 4. Department of IT	Indian Patent Journal
26	Framework for Cross-Domain Transformation and Processing of Multimodal Content Including Text, Image, Video, and Audio	1. Dr. Gayatri Ketepalli 2. Dr. Srikanth Yadav M 3.Dr. K. Santhi Sri 4. Ms. T. Sri Vyshnavi	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of CA	Indian Patent Journal
27	Machine Learning System for Automated Plant Identification Using the Folio Dataset	1. Dr. K. Santhi Sri 2. Dr. Gayatri Ketepalli 3. Dr. Srikanth Yadav M 4.Mrs. Ragam Padmaja	1. Department of CA 2. Department of CA 3,4. Department of IT	Indian Patent Journal
28	System for Stock Market Analysis and Forecasting Using Basic Recurrent Neural Network Models	1. Dr. Gayatri Ketepalli 2. Dr. Srikanth Yadav M 3.Dr. K. Santhi Sri 4.Dr.E.Deepak Chowdary	1. Department of CA 2. Department of IT 3. Department of CA 4. Department of CSE	Indian Patent Journal

S. No.	TITLE	INVENTORS	DEPARTMENT	JOURNAL
29	Deep Learning-Based Framework for Pneumonia Detection Using Medical Image Analysis	1.Mrs.Nazma sultana shaik	Department of IT	Indian Patent Journal
30	System and Method for Pedestrian Detection Using Hybrid CMS-GAN and Night-to-Day Image Translation	1. Mr.S.Nyamathulla 2. Dr. N. Veeranjanyulu	1,2. Department of IT	Indian Patent Journal
31	Hierarchical Detection and Instance Segmentation of Human Body Parts Using COCO-Based Deep Learning Framework	1.Mrs.Nazma sultana sk 2.Dr.V.Nagi Reddy 3.Mrs.P.Radha madhavi	Department of IT	Indian Patent Journal
32	Image Reconstruction System for Wide Dynamic Range Resolution Using Deep Learning Techniques	1. Mr.S.Nyamathulla 2. Dr. N. Veeranjanyulu	1,2. Department of IT	Indian Patent Journal
33	Advanced Facial Emotion Recognition System Using Deep Learning Models	1.Mrs.Nazma sultana sk 2.Dr.V.Nagi Reddy 3.Mrs.P.Radha madhavi	Department of IT	Indian Patent Journal
34	System and Method for Visualizing Complex Street Networks Using Python-Based Dash Sylvereve Framework	1. Dr. K. Santhi Sri 2. Dr. Gayatri Ketepali 3. Dr. Srikanth Yadav M 4. Mr. A. N. Harshith Vardhan	1. Department of CA 2. Department of CA 3. Department of IT 4. Department of CA	Indian Patent Journal
35	System and Method for Integrated Crop Monitoring and Farmer-Market Connectivity Platform	1.Guduru kedar, 2.Kota Lalith Aditya Gupta	1.Department of Information Technology, 2. Department of Information Technology	Indian Patent Journal
36	Intrusion Detection System Using Recurrent Nonsymmetric Deep Autoencoder-Based Classification Framework	1.Dr. Srikanth Yadav.M, 2. Dr. Kalpana R,	1.Department of Information Technology, 2. Department of CSE	Indian Patent Journal
37	System and Method for Intelligent Intrusion Detection in Internet of Things and Cyber-Physical Network Environments	1.Dr. Srikanth Yadav.M, 2. Dr. K.N.S Lakshmi	1.Department of Information Technology, 2. Department of CSE	Indian Patent Journal
38	Development of a Coffee-Infused Natural Soap: A Biobased Strategy for Environmentally Safe Cosmetics	Development of a Coffee-Infused Natural Soap: A Biobased Strategy for Environmentally Safe Cosmetics 1. Dr. K Chandrasekhar 2. Dr. A Venkata Narayana 3. Dr. A Ranga Rao 4. Dr. Satya Eswari Jujavarapu 5. Rashmika Inampudi 6. Mr. Ampasani Chennaiah 7. N. N. Pavan Kumar 8. Manepalli Sri Surya Naga Veera Venkata Lalitha 9. Surapaneni Rithika 10. Mathireddy Poojitha	Department of Biotechnology(all are same)	Indian Patent Journal
39	Two-Stage Deep Learning Framework for Network Intrusion Detection Using Long Short-Term Memory Autoencoder	1. Mrs. Ragam Padmaja 2. Dr. R. Manoharan	1.Department of Information Technology, 2. Department of CSE	Indian Patent Journal
40	Adaptive Hybrid Deep Learning Architecture for Real-Time Detection of Network-Based Intrusions	1.Dr. Srikanth Yadav.M, 2. Mr. Sandeep Kosuri	1.Department of Information Technology, 2. Department of CSE	Indian Patent Journal
41	System and Method for Anomaly Detection in Network Traffic Using Temporal Feature Encoding and Classification Models	1.Dr. Srikanth Yadav.M, 2. Mrs. Saranya Eeday	1.Department of Information Technology, 2. Department of CSE	Indian Patent Journal
42	Speech Emotion Recognition System Using Stochastic Fractal Search-Based Optimization Framework	1. Dharmalingam Anandhakumar	Department of IT	Indian Patent Journal
43	Deep Learning-Based System for Gastrointestinal Disease Detection Using Transformer-Augmented RegNet, MobileNetV2, EfficientNetB2, and ResNet-152	1. Dr. K. Sujatha	Department of IT	Indian Patent Journal
44	Medicinal Leaf Image Classification System Using AlexNet, LeNet, and Convolutional Neural Networks	1. Dr. K. Sujatha	Department of IT	Indian Patent Journal
45	A Novel Variability-Adjusted Coefficient Method (VACM) for Robust Ranking in Multicriteria Decision-Making	1.Yalamanda Babu Gopisetty 2. Dr.Hanumantha Rao Sama	1.Department of Mathematics and Statistics 2. Department of Mathematics and Statistics	Indian Patent Journal
46	A METHOD TO REMOVE NICOTINE DITARTRATE DIHYDRATE IMPURITY RELATED TO PROCESS	1. B. Thirupathi Rao 2. Popuri Ashok Kumar 3. Ratnakaram Venkata Nadh	1. Department of Chemistry 2. Department of Chemical Engineering 3. Department of Chemistry	Indian Patent Journal

A Vignan CSE Student's Path to National Recognition

- Prabhat Kumar



SUCCESS STORY



Prabhat Kumar, a final-year Computer Science and Engineering student at Vignan's Foundation for

Science, Technology & Research (VFSTR), stands as a powerful example of what dedication, perseverance, and the right academic environment can achieve. Originally from Motihari, Bihar, Prabhat's journey from modest beginnings to national recognition through campus placements and competitive exams is deeply inspiring.

Coming from a humble background, Prabhat is the second of three siblings in a family that has always placed immense value on education despite financial constraints. His father works as a transport bus in-charge, and the family's emphasis on learning has been the bedrock of his achievements. Prabhat consistently excelled through every stage of his academics—scoring 77.2% in Class X, 75.4% in Intermediate, and maintaining an impressive 8.67 CGPA during his B.Tech at Vignan.

At Vignan, Prabhat seized every opportunity that came his way. His dedication paid off with notable campus placements—he was selected for TCS Digital with a package of 7 LPA and was also shortlisted for the more selective TCS Prime (9 LPA) through an internal evaluation. Additionally, he received an offer from Cognizant Technology Solutions (CTS) GenC, showcasing his readiness to take on challenges in diverse tech roles.

His academic journey doesn't stop with placements. Driven by a deep interest in core technical concepts, Prabhat appeared for the GATE examination and secured a commendable All India Rank of 1291 in GATE 2024, followed by a strong rank of 2025 in GATE 2025, further reflecting his determination to pursue advanced studies in engineering.

Prabhat's success is part of a larger story of academic aspiration in his family. His elder brother is currently pursuing an MBBS at AIIMS Guwahati, having secured a NEET rank of 4200, while his younger brother has just completed his intermediate studies and is preparing for his next academic step.

Prabhat attributes much of his growth to the encouraging academic ecosystem at Vignan. He acknowledges the support of his mentors, the access to rich learning resources, and the university's focus on holistic development as key elements in shaping his confidence and capabilities.

His journey is a reminder that with resilience, consistent effort, and the right guidance, students from any background can rise to national recognition. Vignan proudly celebrates Prabhat Kumar's achievements and looks forward to seeing him continue to grow and inspire others across the country.



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

Interview with New Registrar

Known for his unwavering commitment to academic excellence, **Dr. P.M.V. Rao** has consistently prioritized quality education throughout his career. His leadership has been instrumental in creating environments that promote rigorous learning, faculty development, and student success. His appointment is expected to further strengthen the university's academic framework and its reputation for excellence.

Q. What inspired you to begin your journey in academia, and how has that journey evolved over the past 25 years?

A. During my post-graduation, I worked as a teaching assistant. Interacting with students and understanding their diverse approaches to learning sparked my interest in teaching. Over the years, that initial interest evolved into a deep commitment to shaping the academic and research culture of the institutions I have been part of.

Q. How has your experience as an Associate Professor for 13 years shaped your approach to leadership roles?

A. This experience helped me understand the academic needs of both students and faculty, which shaped my approach toward academic leadership. It taught me that leadership is not just about authority but about guiding others and enabling their growth.

Q. As the Dean of Academics, Assessments, and Awards, what were some of the most challenging and rewarding aspects of your role?

A. One of the biggest challenges was conducting assessments during the pandemic. However, it turned into one of the most rewarding experiences when



we collaborated with TCS and became the first university to conduct online assessments. It was a proud moment for the entire academic community.

Q. What changes or improvements in academic policy are you most proud of during your tenure?

I'm particularly proud of implementing the R22 regulation. It required careful planning and coordination. The regulation was introduced with the goal of developing program outcomes like analyzing complex problems and designing experimental setups—essentially nurturing creative and critical thinking among engineers.

Q. What motivated you to take on the role of Registrar at this stage in your career?

A. After years of serving in academic and examination roles, I saw the Registrar position as an opportunity to contribute to the university's administrative evolution. I believe I can integrate my academic and administrative experiences to improve governance and policy implementation.

Q. How do you envision the Registrar's office evolving in the following years under your leadership?

A. I envision a more technology-integrated Registrar's office—

streamlined, efficient, and student-friendly. My goal is to ensure transparent, data-driven decision-making processes while supporting academic innovation.

Q. What is your philosophy on academic integrity and quality assurance?

A. I strongly believe that academic integrity is the foundation of quality assurance. Without it, true learning and meaningful assessment cannot happen. Upholding ethical standards ensures the credibility of both students and the institution.

Q. What advice do you offer young faculty members just beginning their academic careers?

A. My advice to young faculty is to focus deeply on the courses they teach and continuously enhance their subject knowledge. Start engaging in research early—it not only contributes to knowledge but also brings personal satisfaction and academic growth.



by
G. Srinikhi
II CSE

Interview with KENYA Delegate

H.E Dr. Wilber K. Ottichilo,
Governor, Vihiga County, Kenya



Q. *We're delighted to hear you're spending some time in India. Could you tell us what areas you're focusing on during this visit, especially in collaboration with the state government?*

A. Thank you so much for the warm welcome. It's truly a pleasure to be here. During this visit, we're exploring several areas of collaboration with the state government, particularly in education, innovation, and agriculture. We're looking at ways to build partnerships that can strengthen capacity building in higher education and support joint research in areas like renewable energy and artificial intelligence. We're also discussing the development of digital and blended learning platforms that can benefit both Indian and Kenyan students.

Q. *What has your experience been like so far at the Vignan campus?*

A. I must say, the visit to Vignan has been incredibly inspiring. The campus is vibrant, the infrastructure is impressive, and there's a palpable sense of academic curiosity and innovation here. It's clear that the university is committed to creating an inclusive learning environment. What stood out to me most was the emphasis on research and how well-integrated it is with the overall academic culture.

Q. *You also had a chance to meet with Kenyan students studying at Vignan. How was that experience for you?*

A. Meeting with the Kenyan students at Vignan was

genuinely heartwarming. It was wonderful to see how well they've adapted to life here, both academically and socially. They spoke so highly of the support they've received from faculty and the opportunities for learning and growth. It was encouraging to hear how much they value their experiences here and how they're planning to use that knowledge to contribute to Kenya when they return.

Q. *What kind of long-term relationship do you envision between Vignan and Kenyan institutions?*

A. I definitely see a long-term, strategic partnership developing between Vignan and institutions in Kenya. We're also keen to explore initiatives that focus on skill development, particularly in areas like renewable energy, agricultural technology, and entrepreneurship. The idea is to create a mutually beneficial relationship that fosters academic excellence while also addressing common developmental challenges.

Q. *Are there specific areas of collaboration you're particularly interested in exploring with Vignan?*

A. Absolutely. We're particularly interested in areas like agriculture, renewable energy, and information technology, which are vital sectors for

both India and Kenya. We're also keen to work on faculty development programs that can elevate the quality of teaching and learning. There's also potential for entrepreneurship initiatives and scholarship programs that encourage student mobility between our countries.

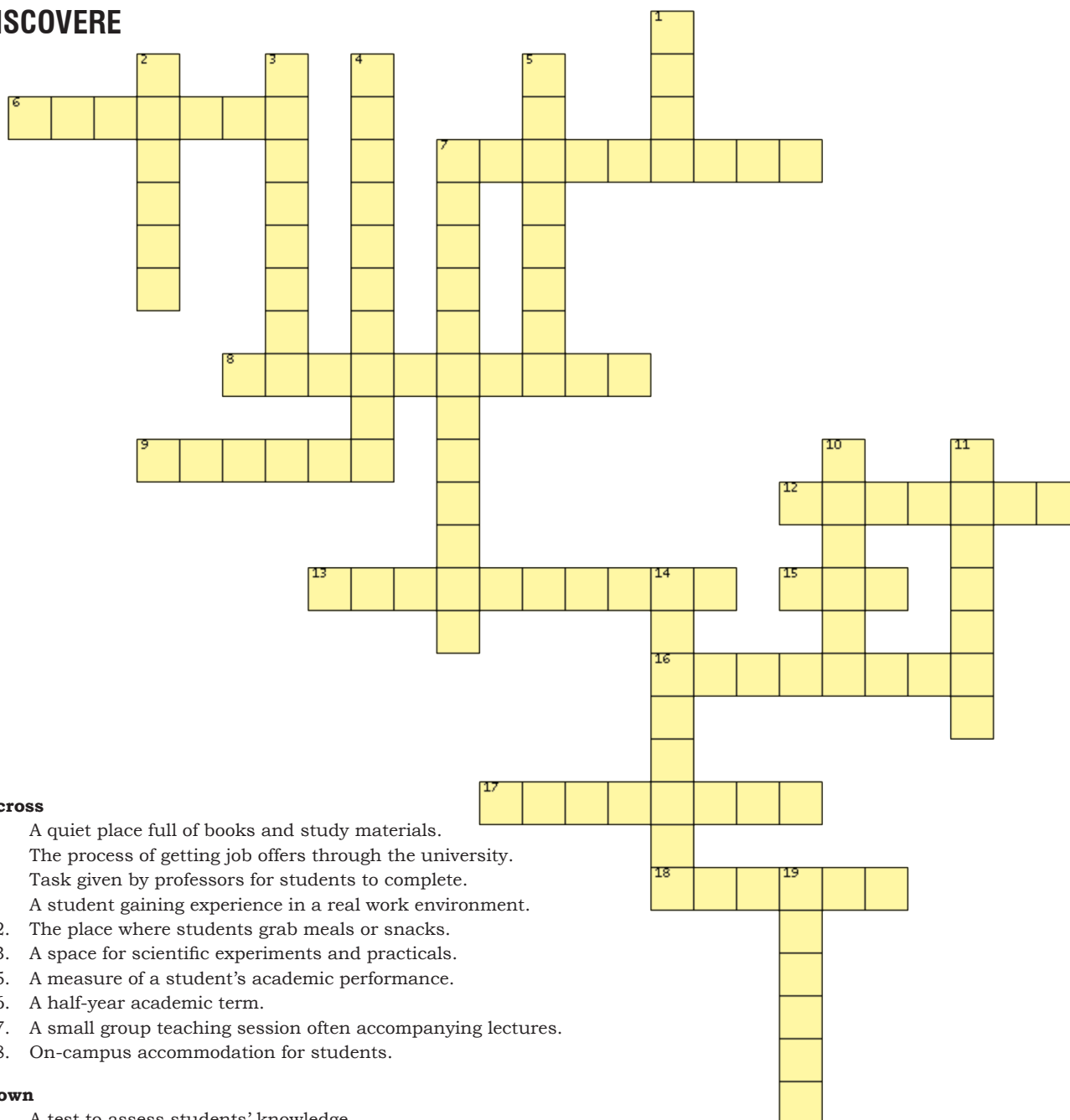
Q. *How would you describe the current state of higher education in Kenya, and how do you see institutions like Vignan contributing to its advancement?*

A. Higher education in Kenya has grown substantially, with more universities and increased access to learning opportunities. We've recently launched the Higher Education Financing portal to provide need-based funding, but financial sustainability and infrastructure remain challenges. This is where collaborations with institutions like Vignan can make a significant impact. By working together, we can focus on enhancing academic quality, promoting digital education, and fostering innovation,



by
T. Devendar Raju
I AI & ML

DISCOVERE



Across

6. A quiet place full of books and study materials.
7. The process of getting job offers through the university.
8. Task given by professors for students to complete.
9. A student gaining experience in a real work environment.
12. The place where students grab meals or snacks.
13. A space for scientific experiments and practicals.
15. A measure of a student's academic performance.
16. A half-year academic term.
17. A small group teaching session often accompanying lectures.
18. On-campus accommodation for students.

Down

1. A test to assess students' knowledge.
2. Units earned for completing a course.
3. The outline or plan of topics covered in a course.
4. The ceremony marking the end of a degree.
5. The latest time or date by which something should be completed.
7. Oral explanation or display of a topic to a class.
10. The entire university grounds and buildings.
11. A formal presentation or class session in a university.
14. Investigative work done to discover or interpret facts.
19. A long essay or dissertation involving personal research.

ANSWERS
Across : 6. Library, 7. Placement, 8. Assignment, 9. Intern, 10. Campus, 11. Lecture, 12. Canteen, 13. Laboratory, 14. Research, 15. GPA, 16. Semester, 17. Tutorial, 18. Hostel
Down : 1. Exam, 2. Credit, 3. Syllabus, 4. Graduation, 5. Deadline, 7. Presentation, 10. Campus, 11. Lecture, 14. Research, 19. Thesis

Knowledge Check

- What is the smallest bone in the human body?
A) Fibula B) Ulna
C) Stapes D) Radius
- Who was the first person to win two Nobel Prizes?
A) Albert Einstein B) Marie Curie
C) Linus Pauling D) Ernest Rutherford
- Which planet in the solar system has the longest day (in terms of Earth time)?
A) Venus B) Jupiter
C) Mercury D) Mars
- In computer science, what does the acronym "SQL" stand for?
A) Simple Query Language
B) Structured Query Language
C) Sequential Query Language
D) Systematic Query Language
- The Battle of Hastings in 1066 was fought in which country?
A) France B) Denmark
C) England D) Scotland

Answers :
1. C) Stapes 2. B) Marie Curie
3. A) Venus 4. B) Structured Query Language
5. C) England

Logic Riddles



1. The Infinite Elevator

Riddle:

A man lives on the 10th floor. Every day, he takes the elevator to the 7th floor and walks up the remaining stairs—unless it's raining, then he rides all the way to the 10th. Why?

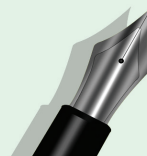
2. The Truth and Chaos Gods

Riddle:

There are two gods: one always tells the truth, the other answers randomly. You can ask one question to determine if $2+2=4$. What do you ask?

Answer:
1. He's short and can only reach the 7th-floor button. When it rains, he uses his umbrella to press the 10th-floor button.
2. "If I asked the other god whether $2+2=4$, what would he say?" Then, take the opposite of that answer.

From the readers



Being a student at VFSTR has been a journey of discovery and transformation. This university nurtures a learning culture that blends innovation with tradition, allowing us to explore knowledge through multiple lenses.

It is not just about earning a degree, it is about evolving as a thinker, problem-solver, and contributor to society, empowering us to take ownership of our learning paths.

VFSTR's focus on holistic development is evident in the way it cultivates leadership, ethics, and teamwork. It is a place where we are encouraged to experiment, make mistakes, and learn with confidence.

A special appreciation goes to the Voice Magazine and the dedicated team behind it. Their effort in capturing and sharing the essence of our university life is truly commendable.

Through insightful articles and vibrant stories, they keep us connected and informed about the various happenings across campus. Thank you for giving us this platform to reflect, express, and celebrate our collective journey.



by
Sunanda Athota
III Biotechnology

Did you know?

The Turritopsis dohrnii, also known as the immortal jellyfish, can revert its cells to an earlier state, effectively starting its life cycle anew. This process allows it to potentially live forever, making it biologically immortal.



Call for Contributions to VOICE OF VIGNAN
Contact : Mrs. Krishnaveni Suryadevara, Content Manager,
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"An investment in knowledge pays the best interest." – Benjamin Franklin

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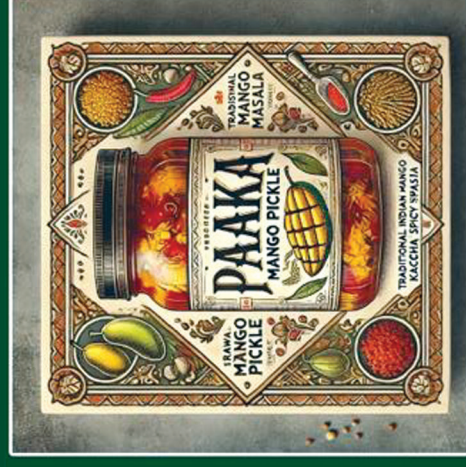
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Andhra Spine Centre

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Services Offered

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Team

Andhra Spine Centre has a team of esteemed doctors who are dedicated to prioritizing patient comfort. The clinic strives to create a relaxing and welcoming environment for everyone who walks through its doors.

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