



SYMBIVATION

ISSUE 10

JAN - MAR 2026

Service Venture Creativity Vision Simply Confid
 nerating Undertake Work Business Job
 Workers Projects Investors Work Production Income Capital
 Competition Successful Economist
Entrepreneurship
 nique Dedication Skill Concept
 ictionary Resources



Entrepreneurial Effort
 CSE B.Tech. 2nd year student
 shines by gifting a dream to his
 parents.
 p. 08

Mr. Samir Shendre
 B.Tech 2nd year student
 Gleam Cosmetics Pvt. Ltd.,
 Founder



WELCOME TO ALL STAKEHOLDERS

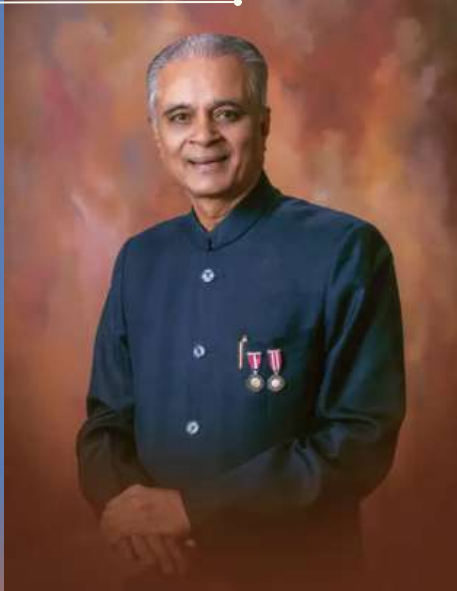
Welcome
to all Stakeholders

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LEADERSHIP



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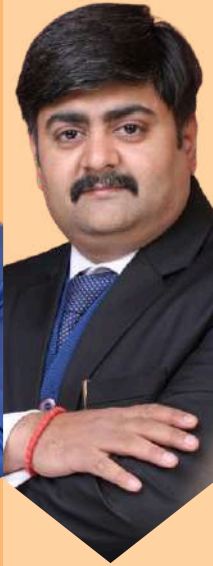
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SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

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EDITOR'S
CORNER

Director's MESSAGE



What sustains life, progress, and the future of our planet? At Symbiosis Institute of Technology, Nagpur, we believe the answer lies in one of nature's most precious resources—water. Beyond its physical significance, water symbolizes balance, continuity, and the responsibility we share towards preserving our environment.

This edition of SymbiVation, documenting the months of January to March 2026, resonates with the theme of World Water Day, reminding us of the urgent need for conservation and sustainable practices. Water teaches us invaluable lessons—it adapts, nurtures, and sustains, yet demands mindful usage and respect. As future engineers, innovators, and leaders, it becomes our duty to develop solutions that ensure equitable access and responsible management of this vital resource.

Over the past few months, our students and faculty have continued to embody these values through academic excellence, research initiatives, and community-driven activities. Our commitment to excellence is reflected in our consistently strong placement records, ensuring our graduates are well-prepared to meet the evolving demands of the global industry.

As we look toward the future, we remain dedicated to fostering high-level academic discourse. To this end, SIT Nagpur is proud to host the 2nd IEEE International Conference on Sustainability, Innovation, and Technology in September 2026, further bridging the gap between innovative research and real-world application.

This edition is not merely a record of achievements, but a reflection of our collective responsibility towards society and the environment. May the spirit of awareness and action inspire us to conserve, innovate, and contribute meaningfully towards a better tomorrow.

Let us move forward together—with purpose, responsibility, and a shared vision for sustainability.

Warm regards,
Dr. Nitin Rakesh Director
Symbiosis Institute of Technology, Nagpur

International Delegation Visit

Ambassadorial Dialogue on Global Academic Collaboration



Guided by the vision of Vasudhaiva Kutumbakam, we express our heartfelt gratitude to:

Prof. (Dr.) S. B. Mujumdar, Founder & President, Symbiosis, for his pioneering internationalisation vision that laid the foundation of Symbiosis as a globally engaged educational ecosystem.

International delegation, representing 12 countries, reaffirming Symbiosis' global vision and the timeless philosophy of Vasudhaiva Kutumbakam – 'The World is One Family' at the SIU Nagpur Campus.

Senegal — H.E. Mr. Abdoulaye Barro

Angola — H.E. Mr. Clemente Camenha

Burkina Faso — H.E. Dr. Desire Boniface Some

Guinea — H.E. Mr. Conte Alassane

Nigeria — Mr. E. Ubong Akpan Johnny

Chad — H.E. Mrs. Ildjima Badda Mallot

Gabon — H.E. Mr. Guy Rodrigue Dikayi & Mrs. Stella Francline Dikayi

Togo — Mr. Kokou Josué Avogan

Benin — Mr. Freud Ulrich Klissa

Democratic Republic of the Congo — Official Representative

Kenya — Mr. Jared Bironga Mayieka

Niger — H.E. Mr. Zada Seidou





International Connect

**Expanding Global Horizons:
Strategic Academic Engagements
in Taiwan**

As part of a high-level FICCI Education delegation, the university engaged with premier Taiwanese institutions to foster internationalization and interdisciplinary research.

It featured strategic dialogues with National Tsing Hua University, Taipei Tech, and Taipei Medical University, focusing on semiconductor technologies, materials science, and innovation-driven ecosystems. A key highlight included an industry interaction with Powerchip Semiconductor Manufacturing Corporation (PSMC), offering deep insights into Taiwan's globally integrated semiconductor landscape. These engagements reinforce our commitment to bridging academia and industry while creating advanced global pathways for our students and researchers.



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International Connect

Indo-Thai Academic Partnerships: Advancing Global Research and Innovation



Following recent engagements in Taiwan, our leadership participated in a high-level FICCI Education visit to Bangkok, Thailand, to foster deeper regional academic integration.

It commenced with strategic dialogues at the Embassy of India, focusing on student mobility and collaborative research. Key academic interactions followed with premier institutions, including Thammasat University, Asian Institute of Technology (AIT), and Sasin School of Management. These discussions centered on engineering, sustainability research, and innovation-driven startup ecosystems. By bridging academia and industry across borders, these engagements reinforce the university's commitment to creating interdisciplinary global pathways and robust knowledge networks across Asia.





The university marked a significant presence at Advantage Vidarbha 2026, a premier industrial exhibition inaugurated by Hon'ble Union Minister Shri Nitin Gadkari and Hon'ble Deputy Chief Minister Shri Devendra Fadnavis.

Representing the institution's commitment to global outreach, the Director of the technical institute served as a distinguished panelist for a high-level session focusing on Central, North, and East Africa. His participation facilitated high-impact G2B and B2B dialogues with international delegates from nations including DR Congo, Cameroon, Angola, Kenya, Chad, and Gabon. Supported by the university's visionary leadership, these interactions underscore a mission to bridge regional potential with global excellence, fostering new pathways for international academic and industrial partnerships.

A special highlight was the release of the Business Taccón Magazine, showcasing emerging business directions and global partnership opportunities.

Advantage Vidarbha

Strengthening Global Ties and Regional Growth

Vidarbha's Mega Industrial Expo



Futred

Round Table Discussion



The Round Table Discussion on Education Internationalisation – Action Plan brought together eminent academicians, including Prof. Rupesh Deshmukh (Central University of Haryana, Mahendragarh), Prof. Gunindro Paonam (Manipur University), and Dr. Nitin Rakesh (Director, Symbiosis Institute of Technology, Nagpur).

Representing diverse academic traditions and institutional strengths, the panel will share insights on policy, practice, and strategies to strengthen India's global academic presence.

The session was held on 19th February 2026, at Haryana Bhawan, New Delhi, and aims to shape a roadmap for meaningful international collaborations.



MOU

- MOMERANDUM OF UNDERSTANDING -



INSTITUTIONAL SYNERGY AND RESEARCH

A constituent of Symbiosis International University, has established a strategic alliance with the National Forensic Science University Main Campus. This partnership focuses on catalyzing joint research initiatives within the critical domains of cyber security, bridging the gap between academic theory and high-level institutional innovation.



PROFESSIONAL EMPOWERMENT AND VISION



This collaboration facilitates comprehensive growth through structured student and faculty exchange programs and specialized skill development workshops.

ENTREPRENEURSHIP CELL



DESIGN THINKING WORKSHOP 2026: DISCOVER THE INNOVATOR IN YOU

The workshop introduced students to the five stages of design thinking—Empathize, Define, Ideate, Prototype, and Test—through interactive activities and real-world case discussions. Participants worked in teams to identify problems, develop user-centric solutions, create rapid prototypes, and present their concepts. With 30 plus participants, the event successfully fostered creativity, collaboration, analytical thinking, and confidence.

IGNITE 1.0

Organized with Institution's Innovation Council, it was a remarkable success. The event served as a vibrant platform to promote entrepreneurial thinking among students while highlighting the journey, achievements, and impact of the Entrepreneurship Cell. It also featured inspiring success stories that motivated aspiring entrepreneurs to pursue innovative ideas and transform them into meaningful ventures.



ENTREPRENEURSHIP CELL



NATIONAL STARTUP DAY

Celebrated the spirit of innovation, resilience, and self-reliance. The event highlighted the importance of startups in driving economic growth, generating employment, and fostering a culture of problem-solving among youth. Through insightful discussions and engaging activities, the celebration emphasized the crucial role startups play in driving economic growth, generating employment opportunities, and contributing to a self-reliant nation. The initiative also highlighted how young minds can transform creative ideas into impactful solutions that address real-world challenges.

SESSION ON BUILD YOUR IDEA USING THE BUSINESS MODEL CANVAS

Aimed at helping students transform raw ideas into structured and viable business models.

The session introduced participants to the nine key components of the Business Model Canvas, guiding them to define their value proposition, customer segments, revenue streams, cost structure, and key partnerships. Through practical examples and interactive discussions, students learned how to analyze feasibility, identify gaps, and refine their concepts systematically.



ENTREPRENEURSHIP CELL

VISIT TO ADVANTAGE VIDARBHA SUMMIT & VOLUNTEERING EXPERIENCE

Students of the Entrepreneurship Cell actively participated in the **Advantage Vidarbha Summit**, gaining valuable exposure to industry leaders, policymakers, investors, and entrepreneurs. The visit provided firsthand insights into regional economic development, emerging business opportunities, and innovation-driven growth initiatives in Vidarbhan addition to learning about emerging industries and technological advancements.

VISIT TO MINDPARK NGO

Visit to **Mindpark NGO** for providing students with an opportunity to engage with social impact initiatives and understand grassroots-level challenges.

During the visit, students interacted with the team to learn about the NGO's mission, ongoing projects, and community outreach efforts. The experience offered valuable insights into social entrepreneurship, sustainable development.



TRAINING AND PLACEMENT

Expert Talk Series

Nice Software Solutions



Featuring Shubhada Jambhekar.
The session provided insights into HR roles, workplace professionalism, communication, resume building, and interview preparation, helping students enhance their career readiness and align with industry expectations.



Tata Consultancy Services



Featuring Abhijeet Mahankal
The session focused on emerging trends in BFSI, digital transformation, and Business 4.0, while guiding students on future career pathways. It emphasized continuous learning, adaptability, and innovation, motivating students to become industry-ready and future-focused professionals.



TRAINING AND PLACEMENT

Acquia



Featuring Sonal Sharma.

The session introduced Acquia's work culture and hiring process, covering resume screening, aptitude tests, and interviews. It emphasized the importance of strong academics, technical skills, and essential soft skills like communication, teamwork, and adaptability to prepare students for corporate careers.



Orangebits



Featuring Divisha Vasani.

The session highlighted current industry trends and evolving corporate expectations, emphasizing innovation, adaptability, digital skills, and problem-solving. It also stressed the importance of communication, leadership, teamwork, and a proactive learning mindset for career success.



TRAINING AND PLACEMENT

Softlink Global



Featuring Kunal Maheshwari and Samrudi Adhau.

The session focused on industry trends, digital transformation, and career readiness, emphasizing technical skills, adaptability, and problem-solving. It also provided insights into recruitment expectations, highlighting the importance of communication, teamwork, and practical experience to help students become industry-ready.



EquationsWork



Featuring Shilpa Choudhary. The session offered insights into recruitment strategies and industry expectations, emphasizing technical skills, communication, and professional readiness. It also highlighted key qualities employers seek, followed by an interactive Q&A that enhanced students'



TRAINING AND PLACEMENT

ProMobi Technologies



Featuring Ms. Sonika Tiwari, Lead – Talent Acquisition. She provided an overview of the company and its recruitment process, while highlighting the evolving expectations of employers. She emphasized that along with strong technical skills, qualities like adaptability, analytical thinking, effective communication, and teamwork are essential for success in today's corporate world.



Infosys



Featuring Mr. Ravi Yadav, Principal Consultant. He shared valuable insights on industry trends, consulting practices, and evolving corporate expectations. The interactive session encouraged students to engage, ask questions, and gain clarity on career paths and professional growth. The talk proved to be informative and motivating, helping students better understand how to bridge the gap between academic learning and industry requirements.



TRAINING AND PLACEMENT

Placement Drive by Softlink Global



Helping students with an excellent opportunity to explore career prospects in the technology and logistics software sector. Representatives from the company shared valuable insights about its work culture, business operations, and the roles offered to fresh graduates, while also highlighting the key skills required to thrive in a dynamic corporate environment.

The recruitment process comprised multiple stages, including aptitude evaluation, technical assessments, and personal interviews.



Industrial Visit by Lighthouse Info Systems



Aiming at providing students with practical exposure to real-time industry operations and project environments. During the visit, students gained insights into the company's operational structure, service domains, and project execution methodologies. The session was conducted by Mr. Devesh Kumar Thakur, Sr. Vice President – CoE, who shared valuable perspectives on the evolving landscape of analytics and IT services.

ACADEMIC ACTIVITIES

Orientation (Even Semester 2025-26)



The Department of Computer Science and Engineering held an Orientation for the 2025-26 Even Semester to welcome students and outline the academic roadmap. The session detailed the department's structure, examination regulations, and core initiatives like Project-Based Learning and Hack-O-Week. Students were briefed on industry readiness, placement strategies, and global exchange opportunities to enhance their professional growth. Additionally, the program highlighted student-led cells for entrepreneurship and service learning to encourage holistic development.

Academic Audit - ODD Semester 2025-26



The Academic Audit Team visited the institute and carried out a comprehensive review of academic processes, documentation, and practices followed during the semester. The team reviewed academic records, interacted with faculty and staff members, and assessed the implementation of academic policies and procedures to ensure quality standard. Such collaborations reflect the institute's commitment to bridging the gap between academic learning and industry expectations.

ACADEMIC ACTIVITIES

Technical Visit by Engineers of Engineers' Forum

The Engineers' Forum, Nagpur, visited the Symbiosis Institute of Technology to observe its technical and architectural developments. This visit aimed to strengthen industry-academia ties through knowledge sharing and professional interaction. Approximately 25 engineers engaged in discussions regarding modern education systems and infrastructure. The event provided industry experts a firsthand look at advanced educational environments. Such engagements continue the Forum's mission of bridging the gap between professional practice and academia.



Student Capability Development Program of Infocepts

Symbiosis Institute of Technology, Nagpur, collaborated with Infocepts to launch an elective on Power BI, Data Science, and Big Data for sixth-semester students. This 40-hour virtual training program provides practical exposure to industry-relevant analytics tools and enhances career readiness. Following a proctored assessment, 60 students were selected to participate in this Campus Capability Development Program. Coordinated by the Training and Placement Cell, the initiative strengthens the campus-to-corporate talent pipeline. Such collaborations reflect the institute's commitment to bridging the gap between academic learning and industry expectations.



SRC ACTIVITIES

Students Representative Council

TECHNICAL CLUB



The Cyber Guardian Club

The Cyber Guardian Club successfully hosted "MythBuster," an immersive cybersecurity awareness initiative. Participants sharpened their digital defenses through hands-on challenges in phishing detection, fraud identification, and password auditing, culminating in a high-stakes Cyber Vault finale. Under the distinguished guidance of leadership and faculty, the event effectively empowered students with the vigilance required for modern digital citizenship.



SPORTS CLUB

Rival Rumble



The intra-collegiate sports tournament, Rival Rumble, was organized in collaboration with DSRW, Nagpur. This two-days event featured intense competitions in volleyball, dodgeball, and kho-kho. Students showcased athletic excellence as both players and professional coordinators, fostering strong leadership and teamwork. The tournament successfully promoted physical fitness and healthy rivalry, concluding with a ceremony honoring top performers.

COMMUNITY OUTREACH CLUB

Documentary Showing on Swami Vivekanan

The Community Outreach Club hosted a documentary screening on Swami Vivekananda to celebrate National Youth Day. The program highlighted his life, teachings, and inspiring message. Under the guidance of faculty, the event encouraged youth to embrace discipline and dedication toward nation-building. It successfully motivated participants to foster confidence and a sense of responsibility as future leaders.



Self-Defense Workshop

The Community Outreach Club organized a Self-Defense Workshop. During the session, participants were taught basic self-defense techniques, safety awareness, and simple physical workouts. The workshop aimed to build confidence, improve physical fitness, and equip students with practical skills to protect themselves in challenging situations.



National Pollution Control Day

The Community Outreach Club conducted an awareness activity on National Pollution Control Day. The program featured informative speeches highlighting the harmful effects of pollution and the importance of protecting the environment. Students were encouraged to understand their role in preserving nature and reducing environmental damage. The session inspired participants to adopt eco-friendly habits and contribute towards creating a cleaner, healthier, and more sustainable environment.



National Energy Conservation Day

The Community Outreach Club organized an awareness program on National Energy Conservation Day. Informative speeches were delivered to highlight the importance of conserving energy and adopting sustainable practices in daily life. The session encouraged students to reduce energy consumption, use resources responsibly, and contribute toward building an energy-efficient and environmentally responsible society.



ENTHUSIA 5.0



SITnovate

SITNovate 2.0 recently concluded its 24-hour national hackathon, where 60 teams developed tech solutions for challenges in healthcare, agriculture, and disaster management.

Teams were judged on both their final presentations and their technical discipline through GitHub tracking, emphasizing real-world implementation.

1
SLAYER

2
BEDSHEET

3
TOTAL OVERDOSE

CODESPRINT

The event "CodeSprint 2.0" was organized under the ACM Student Chapter along with the CyberGuardians Club as a one-day offline competitive coding event designed to enhance participants' coding proficiency, analytical thinking, and collaborative problem-solving skills. Students participated enthusiastically, competing in a dynamic environment that encouraged innovation, teamwork, and logical thinking.

1

The Mind Slay-ers

2

The Syntatic Sigmas

3

Team Git Push



StrangerTech

Stranger Tech 1.0, held on 27 February 2026, was a one-day technical competition under the CSI chapter focused on coding debugging, and problem-solving skills. The mystery-themed event featured multiple rounds including binary decoding, logical reasoning, and DSA challenges.

100+ individuals participated, including **80+** students, **20+** volunteers, teaching staff and administrative staff.

1 The Mind Slay-ers

2 Team Bro Code

3 Team Stack Pro



THE BOARDROOM BATTLE

Teams had to think on their feet, defending bold business pivots and strategic decisions in a high-stakes environment where only the sharpest pitches survived. It was a true masterclass in leadership, turning students into battle-ready decision-makers prepared for the modern corporate landscape.



DALAL STREET

This event turned the heat up as students transformed into high-stakes investors for a high-octane stock market simulation. The event challenged participants to navigate real-time market volatility and sharp financial shifts, proving that quick thinking and bold strategy are the true keys to mastering the trade.

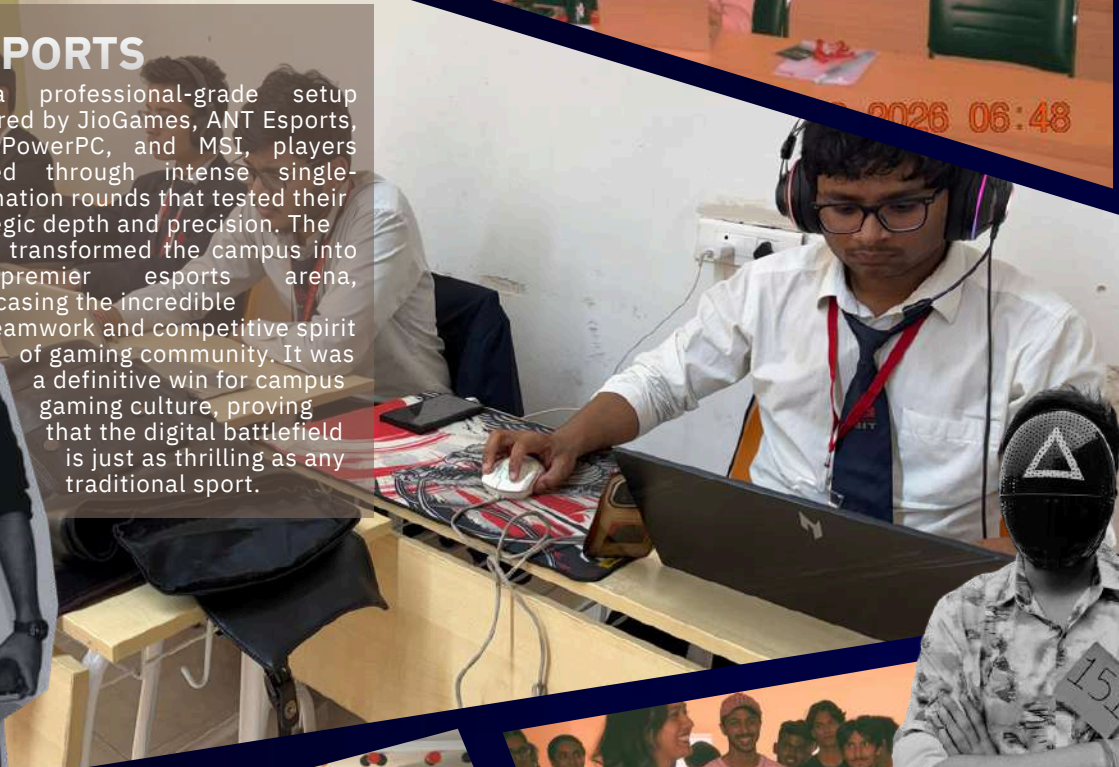
Build Brand

pushed participants into a high-octane, 8-hour creative sprint to tackle real-world branding scenarios. Teams had to merge sharp market strategy with bold creative execution, developing comprehensive brand identities under intense time pressure. The event culminated in a high-stakes final pitch to a panel of expert judges, where students defended their strategic visions. It was a true masterclass in turning complex business problems into compelling, market-ready brand stories.



E-SPORTS

In a professional-grade setup powered by JioGames, ANT Esports, CyberPowerPC, and MSI, players battled through intense single-elimination rounds that tested their strategic depth and precision. The event transformed the campus into a premier esports arena, showcasing the incredible teamwork and competitive spirit of gaming community. It was a definitive win for campus gaming culture, proving that the digital battlefield is just as thrilling as any traditional sport.



CULTURAL DAY

From the "FusionVerse" dance sets that blended global cultures to the creative "Opposites Attract" ramp walk, students pushed the boundaries of performance art.



The evening was a perfect mix of celebration and prestige, featuring a felicitation ceremony that honored the academic and extracurricular milestones of the past year. With parents and faculty cheering from the stands, it was a standout moment that captured the true spirit and diversity of the campus community.



Movie Night

A Movie Night created a lively and enjoyable atmosphere for students. The open-air setup, combined with pleasant weather and a large screen, made the experience exciting and memorable. Students gathered with their friends, relaxed, and enjoyed the film together. To make the event even more engaging, various food stalls were also set up, offering snacks, beverages, and refreshments. The combination of entertainment, food, and a vibrant campus environment made the Movie Night a fun-filled and successful event for everyone who attended.



The cheerful ambiance, laughter, and shared excitement added to the overall experience. Such recreational activities provided a refreshing break from academic routines and strengthened the sense of campus community.

CELEBRITY NIGHT

ANUJ REHAN

From those high-octane Bollywood medleys, he had the entire crowd echoing. It wasn't just a concert; between his acoustic 'unplugged' moments and the effortless connection with the students, it felt like one giant jam session.



DJ TRACER

He is a prominent Mumbai-based producer and DJ leading India's "Hard Bass" movement. He is renowned for his signature "Punch" and "Vibration" style.



DJ NIGHT

Which fuses aggressive EDM basslines with high-energy Desi rhythms.

STAFF SPORTS



A refreshing break filled with fun, fitness, and camaraderie!

Organized in collaboration with DSRW Nagpur, the Staff Sports Day saw 83 participants engage in indoor and outdoor games. The event promoted wellness, teamwork, and interdepartmental bonding, ending with a prize distribution ceremony celebrating the winners.

SPORTS STAFF

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SPORTS STAFF

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Dr. Nitin Rakesh

N. Rakesh et al., “Comprehensive review of heart disease prediction: A comparative study from 2019 onwards,” *Artificial Intelligence in Medicine*, vol. 174, Art. no. 103354, 2026, doi: 10.1016/j.artmed.2026.103354

N. Rakesh et al., “Enhanced detection and mitigation of HELLO flood attacks in IoT networks using modified deep neural networks and optimization algorithms,” *Discover Internet of Things*, vol. 6, no. 1, Art. no. 18, 2026, doi: 10.1007/s43926-025-00268-5.

N. Rakesh et al., “Advancements in kidney stone detection: A comparative analysis of feedforward and convolutional neural networks,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 319–328, 2026, doi: 10.1007/978-981-96-8639-1_26.

N. Rakesh et al., “Gender prediction using iris biometrics: A U-Net-based deep learning approach,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 329–338, 2026, doi: 10.1007/978-981-96-8639-1_27.

N. Rakesh et al., “Multimodal pain recognition: Integrating facial expressions and biomedical signals with deep learning,” in *Lecture Notes in Electrical Engineering*, vol. 1513, pp. 21–30, 2026, doi: 10.1007/978-981-95-5136-1_3.

N. Rakesh et al., “Automated IoT-based multi-level parking systems: A technological solution for efficient parking management,” in *Lecture Notes in Networks and Systems*, vol. 1645, pp. 477–488, 2026, doi: 10.1007/978-3-032-06662-6_47.

N. Rakesh et al., “A voice-based email system for enhancing accessibility for visually impaired and illiterate users,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 387–396, 2026, doi: 10.1007/978-981-96-8639-1_32.

N. Rakesh et al., “Leaf disease prediction system for advancing crop health management,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 307–318, 2026, doi: 10.1007/978-981-96-8639-1_25.

N. Rakesh et al., “Hybrid green 6G HetNet with THz blockage alleviation and modified cooperative NOMA,” *Telecommunication Systems*, vol. 89, no. 1, Art. no. 41, 2026, doi: 10.1007/s11235-025-01377-w.

N. Rakesh et al., “Revolutionizing Skin Cancer Detection: Leveraging Machine Learning and Deep Learning for Precise Lesion Identification,” in *Proc. Int. Conf. Intelligent Computing and Control Systems (ICICCS)*, 2025, pp. 1431–1436, doi: 10.1109/ICICCS65191.2025.10984780.



Dr. Nitin Rakesh

N. Rakesh et al., "Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and Rehabilitation Systems," in Proc. 2025 Int. Conf. Emerging Smart Computing and Informatics (ESCI), 2025, doi: 10.1109/ESCI63694.2025.10988031.

N. Rakesh et al., "Predictive Maintenance of Biomedical Devices Using AI," in Proc. Int. Conf. Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3), 2025, doi: 10.1109/ISAC364032.2025.11156730.

N. Rakesh et al., "Analysis of Inclination Toward IT-Based Startups Among CSE Undergraduates," in Lecture Notes in Networks and Systems, vol. 1039, 2025, pp. 251–263, doi: 10.1007/978-981-97-4152-6_19.

N. Rakesh et al., "Exploring Artificial Intelligence Techniques for Enhanced Accuracy in Medical Imaging and Early Disease Diagnosis," in Proc. Int. Conf. Signal Processing and Communication (ICSC), 2025, pp. 402–408, doi: 10.1109/ICSC64553.2025.10968284.

N. Rakesh et al., "Multi-Modal Robotic Systems for Elderly Care: Design, Implementation, and Evaluation," in Proc. 2025 Int. Conf. Next Generation of Green Information and Emerging Technologies (GIET), 2025, doi: 10.1109/GIET65294.2025.11234771.

N. Rakesh et al., "Real-Time Detection of Rice Bacterial Blight Using Remote Sensing and Deep Learning," in Proc. 3rd Int. Conf. Electronics and Renewable Systems (ICEARS), 2025, pp. 1469–1474, doi: 10.1109/ICEARS64219.2025.10941659.

N. Rakesh et al., "Smart Agriculture – Automated Irrigation and Fertilization System with Built-In Temperature Sensor," in Proc. World Skills Conf. Universal Data Analytics and Sciences (WorldSUAS), 2025, doi: 10.1109/WorldSUAS66815.2025.11199192.

N. Rakesh et al., "Quantum Elliptic Curve Cryptography Algorithm Implements Security Protocol Functions," in Proc. 2025 4th OPJU Int. Technol. Conf. Smart Computing for Innovation and Advancement in Industry 5.0 (OTCON), 2025, doi: 10.1109/OTCON65728.2025.11070809

N. Rakesh et al., "A Hybrid ViT-CNN Architecture for Robust Rice Disease Detection," in Proc. 4th Int. Conf. Innovative Mechanisms for Industry Applications (ICIMIA), 2025, pp. 1821–1826, doi: 10.1109/ICIMIA67127.2025.11200870.



Dr. Sandeep Kumar

S. Kumar et al., "Comprehensive review of heart disease prediction: A comparative study from 2019 onwards, Artificial Intelligence in Medicine, 103354, 2026.

S. Kumar et al., "Advancements in Kidney Stone Detection: A Comparative Analysis." Advances in Data Science and Management: Proceedings of ICDSM 2024, Volume 1 1 (2025): 319.



Dr. Sagar Kumar Badhiye

S. Badhiye et al., "Automatic Helmet Detection from Videos Using Artificial Intelligence Method and Engage with Secured Driving System by Message Alert", Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2026, DOI: 10.1007/s40998-025-00963-7 (Q2)

S. Badhiye et al. "Employing the Erdős-Ko-Rado theorem to develop new techniques in combinatorial intersection theory", Journal of Discrete Mathematical Sciences and Cryptography, 29 (1), pp. 271 - 279, 2026 , DOI: 10.47974/JDMSC-2482 (Q1)

S. Badhiye et al. "Application of Ramsey numbers $R(m,n)$ in analyzing connectivity and coloring problems in discrete graphs", Journal of Discrete Mathematical Sciences and Cryptography, 29 (2-A), pp. 461-468, 2026, DOI: 10.47974/JDMSC-2478 (Q1)

S. Badhiye et al. "Advanced data balancing techniques with machine learning models for acute liver failure prediction", Bulletin of Electrical Engineering and Informatics (BEEI), 15 (1), pp. 895-908, 2026, <https://doi.org/10.11591/eei.v15i1.10010> (Q1)



Dr. MohanKumar

SMohankumar N et al. "An Optimized Hybrid CNN-LSTM Model for Epileptic Seizure Detection and Prediction" *Engineering, Technology and Applied Science Research Journal* (2025): pp. 26085-26090 DOI: <https://doi.org/10.48084/etasr.11042> Q2

Mohankumar N et al. "Impact of capacitance and linearity on the reliability of InGaN notch based dual channel GaN MOSHEMTs for precision biosensing " *Microsystem Technologies*(2025): pp. 3201 - 3213 DOI: 10.1007/s00542-024-05816-7 Q2

Mohankumar N et al. "Design and Simulation of advanced boron-doped GaN cap layer on AlGaIn/GaN MOSHEMTs for enhanced label-free biosensing applications" *Biomedical Microdevices*(2025): 10.1007/s10544-025-00746-1 Q2



Dr. Akhil Gupta

S.A. Gupta et al., "Hybrid green 6G HetNet with THz blockage alleviation and modified cooperative NOMA," *Telecommunication Systems*, vol. 89, no. 1, p. 41, 2026.

A. Gupta et al., "Multimodal pain recognition: Integrating facial expressions and biomedical signals with deep learning," in *Lecture Notes in Electrical Engineering*, vol. 1513, pp. 21–30, 2026.



Dr. Bhupesh Kumar Dewangan

B. K. Dewangan et al. (2026). Extensive review: speech analysis-based assessment of respiratory disorders applying machine learning and deep learning paradigms. *Multimedia Tools and Applications*, 85(2), 73. (Q1)

B. K. Dewangan et al. (2026). Deep learning in public health: evaluating anemia detection methods. *International Journal on Smart Sensing and Intelligent Systems*, 19(1). (Q2)

B. K. Dewangan et al. (2025, December). Transformers Meet Federated Learning: An Intelligent Framework for Energy Forecasting and Optimization in IIoT-Driven Industries. In *2025 4th International Conference on Applied Artificial Intelligence and Computing (ICAAIC)* (pp. 1984-1988). IEEE.

B. K. Dewangan et al. (2025, December). Carbon-Aware Microservices Scheduling: Machine Learning for Sustainable Cloud-Native Applications. In *2025 4th International Conference on Applied Artificial Intelligence and Computing (ICAAIC)* (pp. 1501-1506). IEEE.

B. K. Dewangan et al. (2025, December). Energy-Efficient Optical Network Design for Next-Generation Data Centers. In *2025 Optical Communication, Photonics, Telecommunications, and Intelligent Machine Applications (OPTIMA)* (pp. 195-201). IEEE.

B. K. Dewangan et al. (2025). Design and Performance Analysis of Silicon Photonic Ring Resonators for High-Speed Modulation. *2025 Optical Communication, Photonics, Telecommunications, and Intelligent Machine Applications (OPTIMA)*, 398-404

B. K. Dewangan et al. (2025, December). Dynamic Bandwidth Allocation in Elastic Optical Networks Using Reinforcement Learning. In *2025 Optical Communication, Photonics, Telecommunications, and Intelligent Machine Applications (OPTIMA)* (pp. 601-607). IEEE.



Dr. Pawan Kumar Verma

P. Verma et al., “Enhanced detection and mitigation of HELLO flood attacks in IoT networks using modified deep neural networks and optimization algorithms,” Discover Internet of Things, vol. 6, no. 1, Art. no. 18, 2026, doi: 10.1007/s43926-025-00268-5.



Dr. Gaurav Londhe

G.V. Londhe et al. “Deep spatiotemporal signal learning with transformers for multi-day wildfire forecasting”, Bulletin of Electrical Engineering and Informatics, Open source preview, 2026.

G.V. Londhe et al. “Adaptive Mesh Networking Protocol for Self-Healing Electrochemical Sensor Networks in Environmental Monitoring Applications” Analytical Letters, 2026.

G.V. Londhe et al. “EDGE-CENTRIC PRIVACY-PRESERVING VIDEO ANALYTICS FOR LATENCY-SENSITIVE MONITORING.”Journal of Theoretical and Applied Information Technology, 2026.



Dr. Pradnya Borkar

P. Borkar et al., “Advanced data balancing techniques with machine learning models for acute liver failure prediction”, Bulletin of Electrical Engineering and Informatics (BEEI), 15 (1), pp. 895-908, 2026, <https://doi.org/10.11591/eei.v15i1.10010> (Q1)

P. Borkar et al “Real-Time Exercise Tracking: Leveraging Pose Estimation with MobileNetV2 Architecture” Lecture Notes in Networks and Systems 2026, 1392 LNNS, pp. 260–273,DOI: 10.1007/978-981-96-6095-7_21



Dr. Nilesh Shelke

N. Shelke et. al. , "AI-Driven Green HRM Practices and Environmental Sustainability: A Bibliometric Analysis", Proceedings of International Conference on Computational Intelligence and Information Retrieval, publisher: Springer Science and Business Media Deutschland GmbH, pp. 509 - 521. 10.1007/978-3-032-04539-3_36

N. Shelke et. al. , "Unlocking Banking Insights: Big Data-Powered Artificial Neural Networks", Proceedings of 7th International Conference on Smart Computing and Informatics, pp. 13 - 23. Doi: 10.1007/978-3-032-08240-4_2

N. Shelke et. al. , "Building Legal Intelligence: Designing and Developing a Chatbot with LLM", Proceedings of 7th International Conference on Smart Computing and Informatics, pp. 1 - 12, doi: 10.1007/978-3-032-08240-4_1

N. Shelke et. al. , Hybrid Machine Learning Based Strength and Durability Predictions of Polypropylene Fiber-Reinforced Graphene Oxide Based High-Performance Concrete", Iranian Journal of Science and Technology, Vol. 50, Issue 1, pp 509 - 529. Doi: 10.1007/s40996-025-01852-z



Dr. Ramdas Khomane

R. Khomane et al., "Deep Learning for Detection of Skin Diseases: Enhancing Skin Disease Classification with Modified MobileNetV2 Architectures," 2025 7th International Symposium on Advanced Electrical and Communication Technologies (ISAECT), Mohali, Punjab, India, 2025, pp. 1-6, doi: 10.1109/ISAECT68904.2025.11318753.



Dr. Giridhar Urkude

G. Urkude et al., "Enhancing Rural Water Conservation Through Deep Learning Based Multi-Class Water Quality Classification," *Water Conserv. Sci. Eng.*, vol. 11, no. 1, p. 9, Apr. 2026, doi: 10.1007/s41101-025-00469-7.

G. Urkude et al., "Development and Validation of a Novel Bayesian Belief Network: A Reliable Fuzzy Weighted Diabetes Predictive Model," *Tikrit J. Eng. Sci.*, vol. 32, no. SP1, pp. 1–12, Dec. 2025, doi: 10.25130/tjes.sp1.2025.39.

G. Urkude et al., "Smart Pillbox: Healthcare Assistance for Dementia Patients," 2025 International Conference on Circuits, Controls and Communications (CCUBE), Bangalore, India, 2025, pp. 1-6, doi: 10.1109/CCUBE66458.2025.11340409.

G. Urkude et al., "Preg-Fit: An Essential Fitness Band for Pregnant Women," 2025 7th International Conference on Information Systems and Computer Networks (ISCON), Mathura, India, 2025, pp. 1-6, doi: 10.1109/ISCON65210.2025.11341715.

G. Urkude et al., "Interactive Campus Navigation Bot," in IEEE International Conference on Advanced Computing Technologies 2025 (icact)

G. Urkude et al., "Revolutionising shopping with RFID-enabled automated billing and bulk scanning," in IEEE International Conference on Advanced Computing Technologies 2025 (icact)



Dr. Gagandeep Kaur

G. Kaur et al. "A Dual-Stage Deep Learning Framework for Obesity Assessment with Ultrasound Image Segmentation and Severity Classification." *Engineering, Technology & Applied Science Research* 16, no. 1 (2026): 31895-31900.



Dr. Priya Dasarwar

P. Dasarwar et al. "Gender Prediction Using Iris Biometrics: A U-Net-Based Deep Learning Approach." In Borah, S., Mishra, S.K., Tuba, M., Mahanti, A., Polkowski, Z. (eds) Advances in Data Science and Management. ICDSM 2024. Lecture Notes in Networks and Systems, vol 1477(2026). Springer, Singapore. doi: 10.1007/978-981-96-8639-1_27

P. Dasarwar et al. "Development of AI-Powered Exoskeletons for Mobility Impaired Patients." 2025 International Conference on Next Generation of Green Information and Emerging Technologies (GIET) (2025) : 1-6 doi: 10.1109/GIET65294.2025.11234877

P. Dasarwar et al. "AI-Powered Robotics for Minimally Invasive Cancer Surgeries." 2025 International Conference on Next Generation of Green Information and Emerging Technologies (GIET) (2025): 1-6. doi: 10.1109/GIET65294.2025.11234768



Dr Praveen Kumar Dhankar

P. K. Dhankar et al., "Real-Time Sentiment Analysis of YouTube Comments Using NLP and TextBlob via YouTube Data API," International Conference on Engineering Innovations and Technologies (ICoEIT), 2025
DOI: 10.1109/ICoEIT63558.2025.11211539

P. K. Dhankar et al., "COVID-19 Pandemic Detection and Prevention Using Gans and Their Variants: A Comprehensive Study on Techniques and Applications," IEEE Pune Section International Conference (PuneCon), 2025
DOI: 10.1109/PuneCon67554.2025.11378466

RESEARCH PUBLICATION



Dr Praveen Kumar Dhankar

P. K. Dhankar, et al., "Constraining $f(G)$ gravity models using MCMC method ", Physics of the Dark Universe, Vol. 52, 102246, 2026, DOI: 10.1016/j.dark.2026.102246

P. K. Dhankar, et al., "Studying Bianchi Type-I Universes in the Modified $f(R)$ -Gravity Scenario Using MCMC Approach," Iranian Journal of Science, 2026, DOI: 10.1007/s40995-026-01962-x

P. K. Dhankar, et al., "Scientometric and Text-Mining Analysis of Research Trends in $f(Q)$ -Gravity and Cosmology," Romanian Astron. J., Vol. 35, Nos. 3, p. 205–225, 2025
DOI 10.59277/RoAJ.2025.3.05

P.K. Dhankar, et al., "Dynamics of Bianchi Type-III models with time-dependent gravitational and cosmological constants," Journal of Dynamical Systems and Geometric Theories, Pages 81–98, Volume 23, Issue 1 & 2, 2025.
<https://doi.org/10.47974/JDSGT-2025-01001>

P. K. Dhankar, et al., "Design of ID-Based Public Key Isocryptosystem using DIDLP for Communication," IEEE International Conference on Computer, Electronics, Electrical Engineering & their Applications (IC2E3), 2025
DOI: 10.1109/IC2E365635.2025.11167086

P. K. Dhankar, et al., "IIFP and IDLP based Public Key Isocryptosystem," International Conference on Intelligent and Secure Engineering Solutions (CISES), 2025, DOI: 10.1109/CISES66934.2025.11265703

P. K. Dhankar et al., "A framework of Iso-ID-Based PKC generated on IIF and DIDLP," IEEE 6th India Council International Subsections Conference (INDISCON), 2025
DOI: 10.1109/INDISCON66021.2025.11254805

RESEARCH PUBLICATION



Dr. Snehlata Wankhade

S. Wankhade et al., "A feature engineering–driven ensemble approach for accurate AQI forecasting". *Discover Applied Science*, 8, 216 (2026). <https://doi.org/10.1007/s42452-025-08165-w>

S. Wankhade et al., A Novel Hybrid Approach To Drought Forecasting: Leveraging Feature Engineering And Ensemble Methods. *Sci Rep* 16, 7972 (2026). <https://doi.org/10.1038/s41598-026-37206-6>

S. Wankhade et al. , "A Hybrid BERT–Random Forest Framework for Fake News Classification," 2025 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), Erode, India, 2025, pp. 649-655, doi: 10.1109/ICUIS67429.2025.11380520.

S. Wankhade et al. , "A Hybrid BERT–Random Forest Framework for Fake News Classification," 2025 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), Erode, India, 2025, pp. 649-655, doi: 10.1109/ICUIS67429.2025.11380520.

S. Wankhade et al., "A Comprehensive Study on Olympic Data Analysis for Predicting Performance Trends using Machine Learning Algorithm," 2025 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), Erode, India, 2025, pp. 1080-1085, doi: 10.1109/ICUIS67429.2025.11380487.

S. Wankhade et al., "Revers Engineering Rodometer With Optical Mouse Sensor, and IoT Enabled Solution," 2025 IEEE 4th International Conference for Advancement in Technology (ICONAT), Goa, India, 2025, pp. 1-11, doi: 10.1109/ICONAT66879.2025.11362814.

S. Wankhade et al., "Multimodal Image Registration for Precise Fusion in Biomedical Imaging," 2025 International Conference on Intelligent and Secure Engineering Solutions (CISES), Greater Noida Gautam Budh Nagar, India, 2025, pp. 1005-1010, doi: 10.1109/CISES66934.2025.11265605.



Dr. Snehlata Wankhade

S. Wankhade et al., "Advancements in Wide Bandgap Semiconductors for High-Power and High-Frequency Applications," 2025 International Conference on Intelligent and Secure Engineering Solutions (CISES), Greater Noida Gautam Budh Nagar, India, 2025, pp. 1111-1116, doi: 10.1109/CISES66934.2025.11265011.

S. Wankhade et al. , A. Matmuratov and L. Kumar, "Modeling and Simulation of Defect-Induced Reliability Challenges in Modern Semiconductor Materials," 2025 International Conference on Intelligent and Secure Engineering Solutions (CISES), Greater Noida Gautam Budh Nagar, India, 2025, pp. 1154-1158, doi: 10.1109/CISES66934.2025.11265634.



Dr. Princy Diwan

P. Diwan et al., (2025, August). End-to-End Trustless and Scalable Frame-Work for Smart Agro-Infrastructure Using Blockchain, IoT, and Distributed Storage Technologies. In 2025 Artificial Intelligence and Smart Technologies for Sustainability Conference (AISTS) (pp. 1-6). IEEE. DOI: 10.1109/AISTS66100.2025.11232622.

P. Diwan et al., (2025, April). Traffic Board Detection Using Object Detection Algorithm. In International Conference on Smart Computing and Informatics (pp. 1-10). Cham: Springer Nature Switzerland. DOI: https://doi.org/10.1007/978-3-032-08253-4_1.

P. Diwan et al., (2026). Transformer-based Bilateral Encoder for Teeth Recognition and Bone Loss in Digital Radiographs. International Journal of Computational Intelligence Systems. <https://doi.org/10.1016/j.jspr.2024.102314>.



Dr. Deepak Asudani

D. S. Asudani et. al., A Comprehensive Overview of Graph Convolutional Network, Synthesis Lectures on Computer Science ((SLCS)), 2026, DOI: 10.1007/978-3-031-93802-3_1.

D. S. Asudani et. al., Combinatorial applications of the Catalan numbers in structuring discrete mathematical models, Journal of Discrete Mathematical Sciences and Cryptography, 2026, DOI: 10.47974/JDMSC-2486.



Dr. Shreyas Rajendra Hole

S. R. Hole et al. RIS-aided 5G MISO network optimization with deep reinforcement learning. Discov Appl Sci (2026). D. S. Asudani et. al., A Comprehensive Overview of Graph Convolutional Network, Synthesis Lectures on Computer Science ((SLCS)), 2026, DOI: 10.1007/978-3-031-93802-3_1.

S. R. Hole et al. "HVLGAN: hybrid hierarchical scaled attention-enabled latent model for structure-based drug discovery." Journal of Biomolecular Structure and Dynamics (2026): 1-27. D. S. Asudani et. al., A Comprehensive Overview of Graph Convolutional Network, Synthesis Lectures on Computer Science ((SLCS)), 2026, DOI: 10.1007/978-3-031-93802-3_1.

S. R. Hole et al. "Automated Classification of Disaster Waste Using Vision Transformers: A Deep Learning Approach for Sustainable Post-Disaster Management," 2025 5th International Conference on Artificial Intelligence and Signal Processing (AISP), Vijayawada, India, 2025, pp. 1-5, doi: 10.1109/AISP68263.2025.11396237 .

S. R. Hole et al. "An EfficientNet2-Based Automated Waste Classification System for Sustainable Resource Recovery," 2025 5th International Conference on Artificial Intelligence and Signal Processing (AISP), Vijayawada, India, 2025, pp. 1-5, doi: 10.1109/AISP68263.2025.11396162.

S. R. Hole et al. "Detecting AI-Generated Essays with Hybrid Supervised-Unsupervised NLP Techniques," 2025 5th International Conference on Artificial Intelligence and Signal Processing (AISP), Vijayawada, India, 2025, pp. 1-5, doi: 10.1109/AISP68263.2025.11396327.

RESEARCH PUBLICATION



Dr. Monali Gulhane

M. Gulhane et al., “Comprehensive review of heart disease prediction: A comparative study from 2019 onwards,” *Artificial Intelligence in Medicine*, vol. 174, Art. no. 103354, 2026, doi: 10.1016/j.artmed.2026.103354.

M. Gulhane et al., “Hybrid green 6G HetNet with THz blockage alleviation and modified cooperative NOMA,” *Telecommunication Systems*, vol. 89, no. 1, Art. no. 41, 2026, doi: 10.1007/s11235-025-01377-w.

M. Gulhane et al., “Managing cross-cultural music learning with AI tools,” *ShodhKosh: Journal of Visual and Performing Arts*, vol. 7, no. 1s, pp. 475–485, 2026, doi: 10.29121/shodhkosh.v7.i1s.2026.7112.

M. Gulhane et al., “Automated IoT-based multi-level parking systems: A technological solution for efficient parking management,” in *Lecture Notes in Networks and Systems*, vol. 1645, pp. 477–488, 2026, doi: 10.1007/978-3-032-06662-6_47.

M. Gulhane et al., “Leaf disease prediction system for advancing crop health management,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 307–318, 2026, doi: 10.1007/978-981-96-8639-1_25.

M. Gulhane et al., “Advancements in kidney stone detection: A comparative analysis of feedforward and convolutional neural networks,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 319–328, 2026, doi: 10.1007/978-981-96-8639-1_26.

M. Gulhane et al., “Gender prediction using iris biometrics: A U-Net-based deep learning approach,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 329–338, 2026, doi: 10.1007/978-981-96-8639-1_27.

M. Gulhane et al., “A voice-based email system for enhancing accessibility for visually impaired and illiterate users,” in *Lecture Notes in Networks and Systems*, vol. 1477, pp. 387–396, 2026, doi: 10.1007/978-981-96-8639-1_32.

M. Gulhane et al., “AI-assisted analysis of emotional expression and narrative accuracy in broadcast media practices,” *ShodhKosh: Journal of Visual and Performing Arts*, vol. 6, no. 5s, pp. 601–610, 2025, doi: 10.29121/shodhkosh.v6.i5s.2025.6955.

M. Gulhane et al., “Blockchain framework for sentiment analysis from unstructured text reviews,” *International Journal of Information Engineering and Electronic Business*, vol. 17, no. 6, pp. 34–47, 2025, doi: 10.5815/ijieeb.2025.06.03.



Dr. Parul Dubey

P. Dubey et al. Capsule-enhanced RoBERTa for hierarchical sentiment analysis on social media texts. Discover Artificial Intelligence 6, (2026).

P. Dubey et al. TomatoRipen-MMT: transformer-based RGB and NIR spectral fusion for tomato maturity grading. Scientific Reports 16, 2714 (2026).

P. Dubey et al. Channel Transformer-Based generative adversarial network with Multi-Instance attention and Nutcracker optimization for automatic seizure detection using EEG. Developmental Neurobiology 86, e70012 (2026).

P. Dubey et al. Deep spatiotemporal signal learning with transformers for multi-day wildfire forecasting. Bulletin of Electrical Engineering and Informatics 15, 731–739 (2026).

P. Dubey et al. Efficient transformer architecture for sarcasm detection: a study on compression and performance. Bulletin of Electrical Engineering and Informatics 15, 557–567 (2026).

P. Dubey et al. ViT-U-Net fusion model for accurate localization and recognition of plant leaf diseases. Discover Artificial Intelligence (2026) doi:10.1007/s44163-026-01006-8.



Prof. Firdous Sadaf

F. Ismail, et al., (2026). Optimization of time-cost-quality trade-off problems using advanced Jaya algorithm in construction project scheduling. Asian Journal of Civil Engineering. 1-10. 10.1007/s42107-025-01618-y.

RESEARCH PUBLICATION



Prof. Firdous Sadaf

F. Ismail, et al., Human Breast Cancer Detection Using MATLAB (2026) Lecture Notes in Networks and Systems, 1458 LNNS, pp. 497 - 507, DOI: 10.1007/978-981-96-7499-2_42

F. Ismail, et al., Enhanced Myocardial Infarction Prediction Using Stacking Ensemble Approach (2026) Lecture Notes in Networks and Systems, 1465 LNNS, pp. 363 - 373 DOI: 10.1007/978-981-96-7517-3_31

F. Ismail, et al., A Decentralized Cloud-Based CCTV Surveillance System Using AWS S3 and Blockchain for Secure Logging (2026) Lecture Notes in Networks and Systems, 1465 LNNS, pp. 489 - 498 DOI: 10.1007/978-981-96-7517-3_41

F. Ismail, et al., Electric Vehicle Sales Prediction Using Machine Learning and Statistical Models (2026) Lecture Notes in Networks and Systems, 1465 LNNS, pp. 477 - 488 DOI: 10.1007/978-981-96-7517-3_40

F. Ismail, et al., Revolutionizing Healthcare: Contributions and Considerations of AI in Clinical Practices (2026) Lecture Notes in Networks and Systems, 1465 LNNS, pp. 341 - 351, DOI: 10.1007/978-981-96-7517-3_29



Dr. Harshala Shingne

H. Shingne et al. Federated deep learning-driven decentralized and cost-aware cloud resource management for load balancing and SLA optimizations. Discov Computing 29, 105 (2026). <https://doi.org/10.1007/s10791-026-09988-w>



Dr. Harshala Shingne

H. Shingne et. al., "Semantic Analysis for Large-Scale Privacy Auditing: A Multi-Modal Framework Combining CatBoost and Sentence Transformers for Cookie Classification," 2025 IEEE 2nd International Conference for Women in Computing (InCoWoCo), India, 2025, pp. 1-7, doi: 10.1109/InCoWoCo68239.2025.11407183.

H. Shingne et. al., "Cryptographic Algorithm Identifier with Vulnerability Detection and Recommendations," 2025 IEEE 2nd International Conference for Women in Computing (InCoWoCo), India, 2025, pp. 1-8, doi: 10.1109/InCoWoCo68239.2025.11407046.

H. Shingne et. al. (2025). Deep Learning-Driven Visual Analytics Framework for Next-Generation Environmental Monitoring. Journal of Applied Science and Technology Trends, pp.114-122.



Prof. Rohit Pawar

R. Pawar et al. Hybrid machine learning modeling and bioinspired metaheuristic optimization of tensegrity trusses for structural design. J. Eng. Appl. Sci. 73, 24 (2026). <https://doi.org/10.1186/s44147-026-00873-3>



Prof. Nisha Gongal

.N. B. Gongal, "Analysis for Sentimental Theory Using Deep Learning: Fake or Genuine Reviews Detection", (2026) Lecture Notes in Networks and Systems, 1683 LNNS, pp. 259 - 270
DOI: 10.1007/978-3-032-08243-5_24.

N. B. Gongal, "Security and Protection in Modern Operating Systems: A Comprehensive Review," 2025 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), Erode, India, 2025, pp. 184-188, doi: 10.1109/ICUIS67429.2025.11380480.



Prof. Nisha Gongal

N. B. Gongal, "A Comparative Analysis of the Architectural Foundations of Android and IOS," 2025 5th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), Erode, India, 2025, pp. 189-195, doi: 10.1109/ICUIS67429.2025.11380493.



Prof. Jay Vasani

J. Vasani. et. al. "AI IN RECONSTRUCTING LOST MODERNIST ARTWORKS". ShodhKosh: Journal of Visual and Performing Arts, vol. 7, no. 1s, Feb. 2026, pp. 565–575, doi:10.29121/shodhkosh.v7.i1s.2026.7098.



Prof. Ankita Avthankar

A. Avthankar et al., "From Drops to Decisions: AI/ML-Driven Biofluidics for Clinical Diagnostics and Healthcare Intelligence" _Analytical Chemistry, vol. 98, 2026, doi: 10.1021/acs.analchem.5c06356

A. Avthankar et al., "Evaluation of ACL Tears in Knee with MRI Scanning System Using Transformer and Deep Learning," in Lecture Notes in Networks and Systems, 1684 LNNS, pp. 1 - 9, 2026, doi 10.1007/978-3-032-08246-6_1

A. Avthankar et al., "Artificial Intelligence Meets Nail Diagnostics: Emerging Image-Based Sensing Platforms for Non-Invasive Disease Detection" Bioengineering, vol. 13, 2026, doi: 10.3390/bioengineering13010075



During the Learning Express Program (LEX), a collaborative 10-day initiative between **Singapore Polytechnic** and **Symbiosis International University**, Sanvi Wadhankar applied design thinking to address water scarcity for a cliffside village in Pune. After evaluating the terrain's limitations, the team transitioned from an initial underground tank concept to a more effective system of terraced barriers designed to slow runoff and retain water for agricultural use. Beyond the technical solution, the experience highlighted the power of cross-cultural collaboration and iterative problem-solving, emphasizing the importance of understanding community perspectives.





A team comprising Sumukh Chourasia, Parth Chourdhari, Sharvayu Zade, and Satvik Barhanpure distinguished themselves as third position in the prestigious national-level Samadhaan UPAY) hackathon, where nearly 500 teams, including several from IITs, had participated.

(Competing in the Tech-Enabled Impact Solutions track, they developed and showcased an innovative, low-cost, and user-friendly data system for NGOs that streamlines field data collection and provides real-time, actionable insights for program heads.



FACULTY AS RESOURCE

DR. SAGARKUMAR SHRIDHAR BADHIYE

Invited as a Session Chair at the International Conference on Advancement in Science, Technology and Management (ICASTM 2026).



Invited for an expert talk on "Document Preparation: A LaTeX Based Approach" in a webinar organized by the Computer Society of India and Guru Nanak Institutions Technical Campus.



Invited as Session Chair (Online) at the IEEE Conference on Contemporary Computing Innovations (CCIC 2026), held at Mohan Babu University, Tirupati.



FACULTY AS RESOURCE

PROF. NISHA GONGAL

Delivered an expert lecture on "Advanced Java," covering modern programming concepts and applications.



DR. SMITA NIRKHI SINGH

Served as an International Advisory Committee Member for the IEEE International Conference on AI-Driven Smart Systems and Ubiquitous Computing.



PROF. JAY VASANI

Delivered an expert lecture on "Communication = Branding," at Jayaswal NECO Industries, Nagpur.



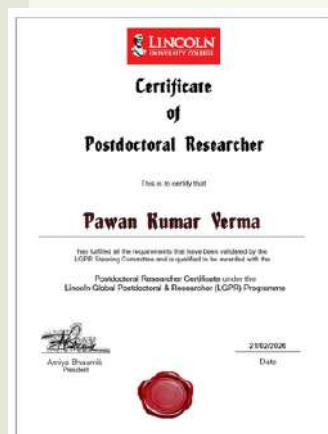
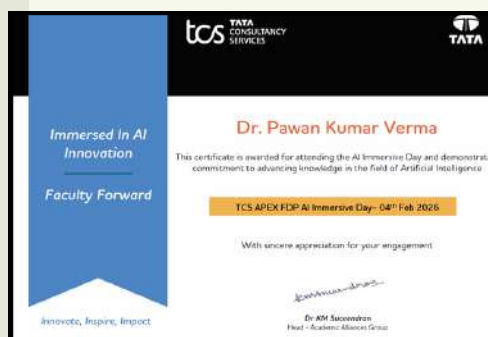
FACULTY

ACHIVEMENT

DR. PAWAN KUMAR VERMA

Completed a one-year Postdoctoral Fellowship at Lincoln University College, focusing on AI in agriculture.

Attended the Immersive Day organized by Tata Consultancy Services (TCS) at the MIHAN Campus, Nagpur, Maharashtra, India.



DR. SHREYAS RAJENDRA HOLE

Dr. Shreyas Rajendra Hole received the Best Paper Presentation Award at OPTIMA 2025 for the paper titled "AI-Driven Fault Detection and Localization in Optical Fiber Networks."



FACULTY

ACHIVEMENT

Recognized as IEEE Senior Member



Dr. Smita Nirkhi Singh



Dr. Piyush Chouhan



Dr. Bhupesh
Dewangan



Dr. Nilesh Shelke



Dr. Gagandeep Kaur



Dr. Priya Dasarwar



Dr. Parul Dubey



Dr. Deepak
Assudani



Dr. Monali Gulhane

International Women's Day

March 08, 2026



Celebrating the spirit of strength, health, and empowerment on International Women's Day 2026!

Symbiosis Institute of Technology, Nagpur proudly organized an insightful session on "Nurturing Women's Health: The Role of Nutrition Across Life Stages" by Dr. Meghana Kumare, Dietitian/Nutritionist, Red Apple Wellness Diets. The session beautifully highlighted the importance of women's health, nutrition, and well-being at every stage of life.



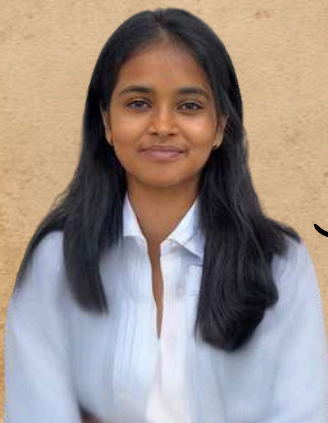
Symbiosis Institute of Technology, Nagpur organized "Yoga for Women", a refreshing and rejuvenating session conducted by the volunteers of Isha Foundation, dedicated to women's health, inner balance, and overall well-being. The session focused on enhancing flexibility and strength, reducing stress, improving posture and breathing, and encouraging a healthier and more mindful lifestyle.

Every woman is a symbol of power, grace, and resilience.

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

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Editor's Corner



Khushi
Agrawal



Nidhhi
Khobragade



Sanskruti
Bramhankar



Ayush
Dehankar



Vaanya
Bajaj



Parth
Tiwari



Photo Credit: Prof. Jay Vasani

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

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