

# SciTech Chronicles

## SCHOOL OF TECHNOLOGY & SCIENCES

NEWSLETTER

JANUARY - 2026



# Message .....

*"REMEMBER, LEADERSHIP IS NOT JUST ABOUT ACHIEVING GOALS; IT'S ABOUT INSPIRING OTHERS TO ACHIEVE THEM TOGETHER. BY BLENDING THE WISDOM OF THE PAST WITH THE REALITIES OF THE PRESENT, LEADERS CAN NAVIGATE THE COMPLEXITIES OF THE MODERN WORLD AND CREATE LASTING IMPACT."*

**-Dr. Raul V. Rodriguez**  
Vice-President  
Woxsen University



*"I BELIEVE THAT EDUCATION IS NOT MERELY THE ACQUISITION OF KNOWLEDGE, BUT THE CULTIVATION OF WISDOM. WE WILL STRIVE TO CREATE A HOLISTIC LEARNING EXPERIENCE THAT FOSTERS INTELLECTUAL CURIOSITY, ETHICAL CONSCIOUSNESS, AND CULTURAL SENSITIVITY. BY PROVIDING OPPORTUNITIES FOR EXPERIENTIAL LEARNING, MENTORSHIP, AND COMMUNITY ENGAGEMENT, WE WILL EQUIP OUR STUDENTS WITH THE SKILLS AND VALUES NEEDED TO SUCCEED IN AN EVER-EVOLVING WORLD."*

**-Dr. Uma Ananda**  
Vice Chancellor  
Woxsen University

# Message .....



*"IN MY SCHOOL OF TECHNOLOGY IT IS NOT JUST ABOUT THE CUTTING-EDGE LABS WITH THE LATEST INFRASTRUCTURE BUT THE ENVIRONMENT AND THE MENTORS AMONG THE FACULTY."*

**-Dr. Pepluis Esteva de la Rosa**  
Executive Dean  
School of Technology

*"AS DEAN OF THE SCHOOL OF SCIENCES, I'M PROUD OF OUR STUDENTS AND FACULTY FOR THEIR HARD WORK. OUR LABS ARE HELPING DRIVE EXCITING RESEARCH AND HANDS-ON LEARNING. I LOOK FORWARD TO THE CONTINUED SUCCESS OF OUR COMMUNITY."*

**-Dr. Daya Shankar**  
Dean  
School of Sciences



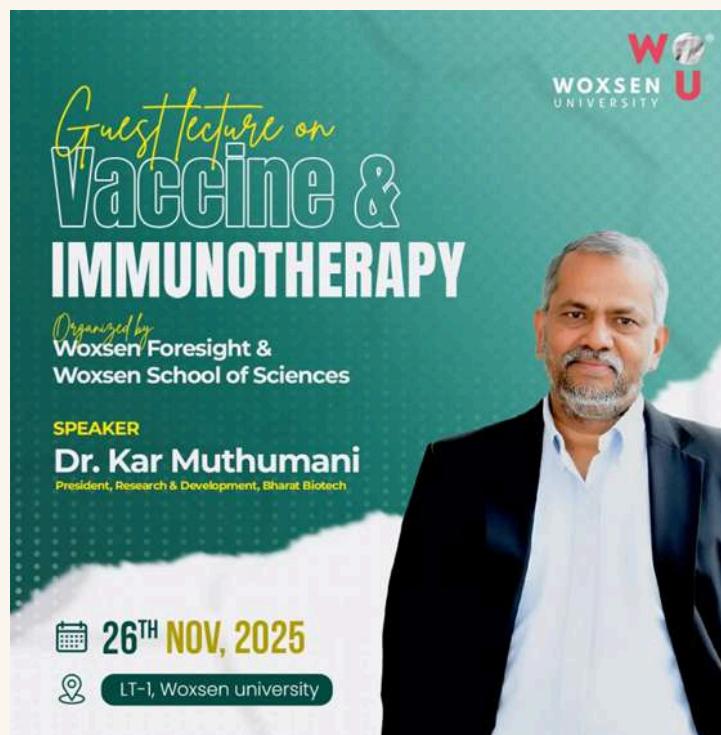
# Table of Contents

1. Science and Technology News	5
2. Faculty Achievements	9
3. Student Achievements	12
4. Puzzle Time!!	15
5. Answers for the previous puzzle	16
6. Editor's Note	17

# SCIENCE AND TECHNOLOGY NEWS

Woxsen Foresight and the School of Sciences proudly hosted an enlightening session on “Vaccine & Immunotherapy” delivered by Dr. Kar Muthumani, President – R&D, Bharat Biotech. The event brought together students, faculty and researchers for an in-depth discussion on the rapidly evolving landscape of vaccine science.

Dr. Muthumani, a distinguished leader in vaccine research and global health innovation, shared critical insights into cutting-edge R&D approaches, translational research models, and the scientific advancements shaping the next generation of vaccines and immunotherapy platforms.



**Guest Lecture on Vaccine & IMMUNOTHERAPY**

Organized by Woxsen Foresight & Woxsen School of Sciences

**SPEAKER**  
**Dr. Kar Muthumani**  
President, Research & Development, Bharat Biotech

**26<sup>TH</sup> NOV, 2025**

LT-1, Woxsen university

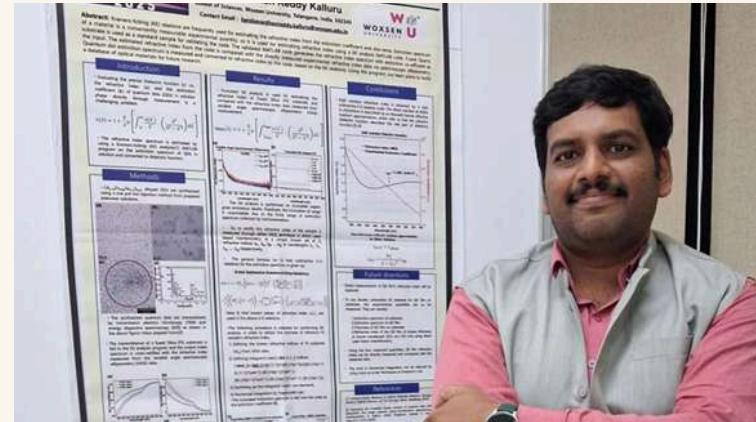
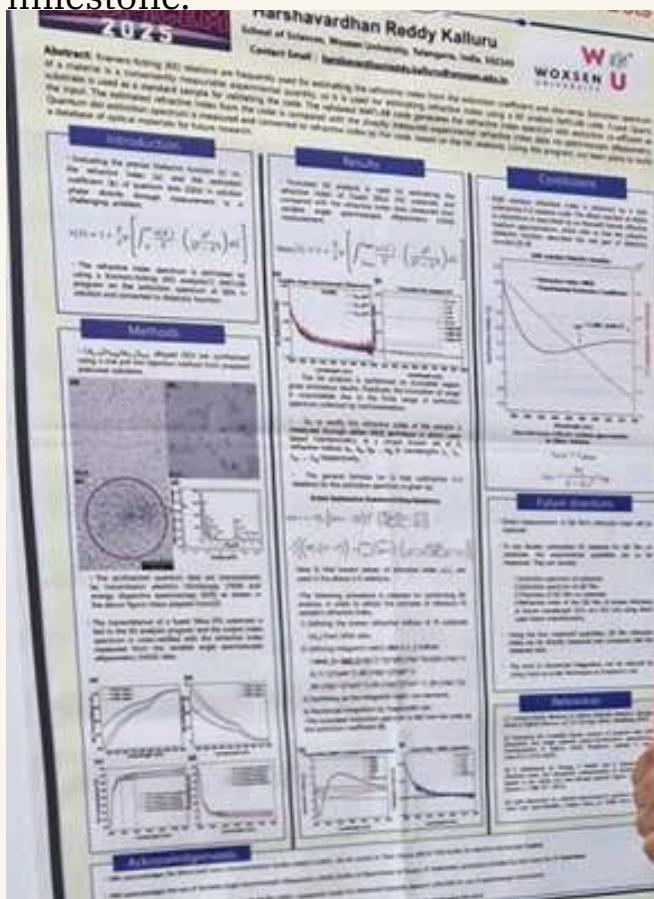


His talk highlighted the urgent need for innovative solutions to combat emerging infectious diseases and strengthen public health preparedness worldwide. The session provided Woxsen students a rare opportunity to gain first-hand knowledge of the scientific, logistical, and regulatory challenges involved in vaccine development. The interactive discussion also shed light on India's growing leadership in biotechnology and its role in the global health ecosystem.



# SCIENCE AND TECHNOLOGY NEWS

Dr. Harshavardhan Reddy Kalluru from the School of Sciences, Woxsen University, recently presented their research work at the International Conference on Emerging Materials (ICEM) 2025, organized by the Materials Research Society of India (MRSI) at the National Institute of Science Education and Research (NISER), Bhubaneswar. The presentation highlighted research conducted over the past few months and marked a significant academic milestone.



The milestones following Dr. Harshavardhan Reddy Kalluru's resumption of active research after joining Woxsen University as an Assistant Professor. The conference served as a multidisciplinary platform for exchanging scientific ideas and fostering collaborative discussions across emerging areas of materials research.

The faculty member expressed gratitude to the MRSI-ICEM 2025 Organizing Committee for providing an excellent forum to present and critically evaluate on-going research initiatives. The successful participation was made possible with the encouragement and support of the Dean, School of Sciences, Woxsen University, Dr. Daya Shankar Tiwari, along with Dr. Beauty Pandey and Dr. Ramakrishna Madaka, whose guidance facilitated the effective showcase of this research endeavour.

# SCIENCE AND TECHNOLOGY NEWS

The School of Technology (SOT), Woxsen University, continues to strengthen its leadership in advanced Artificial Intelligence research with the launch of the Woxsen Agentic Lab at CITRIC.



Designed to address the rapid rise of Agentic Artificial Intelligence, the initiative is open to BTech students across all programs, enabling interdisciplinary collaboration aimed at building intelligent, autonomous systems aligned with real-world enterprise needs.

As part of this initiative, the Woxsen Agentic Lab—working in collaboration with the Synapse Society—has introduced a new podcast series that serves as a platform for academic discourse, applied research, and student-driven innovation in Agentic AI.



The first episode, “From Vision to Impact: Building the Future of Agentic Intelligence at Woxsen,” explores the conceptual foundations, evolution, and practical relevance of Agentic AI. The discussion emphasizes how agent-based systems are reshaping industries by enabling AI to reason, act autonomously, and collaborate toward complex objectives.

Through the Woxsen Agentic Lab and its associated initiatives, the School of Technology reinforces its role as a catalyst for advanced AI research and innovation. The podcast series will continue to feature conversations on emerging technologies, applied research, and student-led exploration, aligning SOT’s academic mission with the evolving demands of intelligent, agent-driven enterprises.

The initiative was supported by dedicated mentorship from Dr. Sarah Mariam Roy, Anusree B, and Niharika Chithanoori, whose academic guidance and encouragement were instrumental in shaping the lab’s vision and outreach.

# SCIENCE AND TECHNOLOGY NEWS

Over the past year, the School of Technology (SOT) at Woxsen University has undergone a decisive transformation—from a strong engineering school into a fully integrated technology ecosystem. The 2024–25 SOT Report captures this shift in a single narrative, bringing together national rankings, a sharpened vision and mission.

## SCHOOL OF TECHNOLOGY, WOXSEN UNIVERSITY

The past six months have been transformative for the School of Technology. As the driving force behind Polaris in Action, we have demonstrated how bold ideas can translate into real impact—through innovation, collaboration, and global engagement.

Our students continue to excel in hackathons, ventures, and industry-led projects, while our faculty push the frontiers of knowledge with research, patents, and international thought leadership. These efforts are not only strengthening our reputation as a hub of excellence but also ensuring that Woxsen stands at the forefront of global technology education.

At the heart of our journey is a commitment to responsible and ethical innovation. From AI and blockchain to robotics and digital preservation, we strive to ensure that technology uplifts communities, fosters sustainability, and shapes a future that is both equitable and inclusive.

This report reflects more than our achievements—it captures the spirit of who we are becoming: a school that doesn't just teach technology, but redefines its purpose for the world.



The guiding philosophy behind this progress is clear: to create BTech graduates who are irreplaceable, not merely placeable. While many institutions continue to focus narrowly on placement statistics.

And a redefinition of how Computer Science and Electronics engineering education is delivered. At the heart of this transformation is Polaris, a structured framework that offers every BTech junior scholar four clear employability pathways: research, industry, entrepreneurship, and public service.

School of Technology • 2025

Woxsen University School of Technology has achieved impressive rankings in the IIRF University Rankings 2025.

**#1**

All India Top emerging Engineering college

**#6**

All India – Top Private New-age Universities

**#3**

South Zone – Top Private New-age University

**#20**

All India – Top 360 private engineering Institutes

**#12**

The top 200 private institutes in India for BTech programs.

SOT's approach prioritizes long-term relevance, adaptability, and leadership. The results are visible in the confidence, capability, and ambition of its junior scholars—students who are not just consuming technology, but actively shaping it. Yet, despite these achievements, SOT views the current moment not as a destination, but as a foundation for even greater impact.

# FACULTY ACHIEVEMENTS



The image shows a screenshot of an IET (The Institution of Engineering and Technology) article page. The article is titled "From Smart Cities to Manufacturing: A Comprehensive Study on Digital Twin Applications and Barrier". It is authored by Bhargav Prajwal Pathri and Krishna Vamshi Ganduri. The article was first published on 21 November 2025 and has a DOI of <https://doi.org/10.1049/dgt2.70014>. The page includes a "VIEW METRICS" button and a "Digital Twins and Applications" banner.

## Prof. Bhargav Prajwal Pathri

Professor, School of Technology, publishes an article titled "Smart Cities to Manufacturing : A Comprehensive Study on Digital Twin Applications and Barriers".

## Dr. Dharavat Nagaraju

Professor, School of Technology, publishes a research paper on a Novel comprehensive and rigorous analysis of variable step flying squirrel search optimization MPPT controller for renewable energy systems.



The image shows a screenshot of an Elsevier research paper titled "A novel comprehensive and rigorous analysis of variable step flying squirrel search optimization MPPT controller for renewable energy systems". The paper is published in "Results in Engineering" (Volume 28, December 2025, 108382). The authors are Shaik Rafikiran <sup>a</sup>, Likhitha R <sup>b</sup>, CH Hussain Basha <sup>c</sup>, Nagaraju Dharavat <sup>d</sup>. The page includes a "Show more" button.



The image shows a screenshot of the book "State and Society in India: A Historical Retrospect" by Dr. Brundaban Mishra and Rekha Pande. The book is published by CRC Press and has a price of £42.39. It includes a "Table of Contents" and a "Free Shipping (14-21 Business Days)" offer.

## Dr. Brundaban Mishra

Associate Professor - School of Technology has published a book named State and Society in India - A historical Retrospect

# FACULTY ACHIEVEMENTS

**scientific reports**

Explore content ▾ About the journal ▾ Publish with us ▾

[nature](#) > [scientific reports](#) > [articles](#) > article

Article | [Open access](#) | Published: 08 December 2025

**An intelligent algorithm based optimized clustering method for energy harvesting WSN**

[Sanjai Prasada Rao Banoth](#), [Biswa Mohan Sahoo](#), [Anil Kumar Gankotiya](#), [Abhishek Kumar Pandey](#) & [Arvind Dhaka](#)

[Scientific Reports](#) 16, Article number: 50 (2026) | [Cite this article](#)

773 Accesses | [Metrics](#)

## Dr. B Sanjai Prasada Rao

Professor - School of Technology has published an article titled “An Intelligent algorithm based optimized clustering method for energy harvesting WSN”.

## Dr. T Santhosh Kumar

Associate Professor - School of Science published an article focusing Solvent mediated morphology of ZrZnS nanocrystals for synergistic surface

[Home](#) > [Journal of Nanoparticle Research](#) > Article

**Solvent mediated morphology of ZrZnS nanocrystals for synergistic surface-functionalization with gefitinib and miR146 for cancer treatment**

Research | Published: 09 December 2025  
Volume 27, article number 323, (2025) | [Cite this article](#)

# FACULTY ACHIEVEMENTS



## Dr.N.KARTHICK

Associate Professor - School of Technology has published a book highlighting Foundations of Robotics which explores the principles, structures, and applications of robotics in a clear and systematic manner.

## Dr.Bhargav Prajwal Pathri

Associate Professor - School of Technology has published an article on Woxbot-B for gas pipeline inspection: machine learning - based flaw detection



View PDF      Download full issue

**Results in Engineering**  
Volume 29, March 2026, 108772

Research paper  
Woxbot-B for gas pipeline inspection: machine learning-based flaw detection

Krishna Yamshi Ganduri <sup>a</sup>, Sarath Chandra Veerla <sup>a</sup>, Bhargav Prajwal Pathri <sup>a, b, \*</sup>, S.V.N. Pammi <sup>c</sup>, Tadakaluru Vineeth Kumar <sup>b</sup>, Koganti Sajith <sup>a</sup>

Show more ▾

# STUDENT ACHIEVEMENTS

The month of December 2025 has been marked by commendable student achievements across diverse domains ranging from cutting-edge technologies to impactful social contributions.

## N Hyndhava Mahesh- BTech-2027 (AIML)

Mahesh has participated and presented a paper in 1<sup>st</sup> International Conference on Recent Trends in Computing and Smart Mobility on 5<sup>th</sup> – 6<sup>th</sup> December 2025 at Maulana Azad National Institute of Technology, Bhopal, India.



Mahesh has received the certificate of Participation for attending the Largest Agentic AI Hackathon which broke the World Record



Mahesh has participated and presented a paper in 1<sup>st</sup> International Conference on Recent Trends in Computing and Smart Mobility on 5<sup>th</sup> – 6<sup>th</sup> December 2025 at Maulana Azad National Institute of Technology, Bhopal, India.



# STUDENT ACHIEVEMENTS



## 1. Safa Nazneen – B.Tech 2028 (Data Science)

Safa Nazneen has received a Certificate of Participation for participating and upskilling with the Transition from Non-Data Science to Data Science roles Masterclass on 2<sup>nd</sup> December 2025.

## Monishwar Reddy V – B. Tech 2027 (CSE)

Monishwar took a part in a Guinness World Record title in an agentic AI hackathon was achieved by Google for Developers group Hyderabad on 21<sup>st</sup> December 2025.



# STUDENT ACHIEVEMENTS

## Certificate of Participation.

This is to acknowledge that

**Vittal Karthik Vunnava**

has attended Agentathon 2025, the Largest Agentic AI hackathon, which broke the World Record and was hosted by GDG Hyderabad at Malla Reddy University, Hyderabad, on December 20 and 21, 2025.

  
Arshad Dinesh Devani  
Lead - Google Developers Groups Hyderabad  
Co-Organiser - Agentathon 2025  
Cloud Developer

  
J Sh Ram Shastri  
Co-Organiser - Google Developers Groups  
Cloud Developer



## Vittal Karthik Vunnava – B. Tech 2027 (CSE)

Vittal has received the certificate of Participation for attending the Largest Agentic AI Hackathon which broke the World Record and was hosted by GDG Hyderabad at Malla Reddy University, Hyderabad on 20<sup>th</sup> – 21<sup>st</sup> December 2025.

## 1.D Buddeshwar – B. Tech 2027 (AIML)

D Buddeshwar has received Certificate of Excellence for participation in CodeMatrix: Genesis Hackathon, organized by Dr. Ambedkar Institute of Technology for Handicapped (AITH), UP, Kanpur on 15<sup>th</sup> December 2025.



# PUZZLE TIME !!

## The Debugging Dilemma

### Scenario:

During a late-night hackathon, five friends – Arjun, Neha, Kiran, Priya, and Ravi – were debugging their programs in the lab.

Each was working in a different programming language – Python, Java, C++, JavaScript, and Go – on a different operating system – Windows, Linux, macOS, Ubuntu, and Fedora – and each encountered a different type of error – Syntax, Runtime, Logic, Compilation, and Memory (one of each).

### Here's what we know:

- Arjun was not using Python or Java.
- The person working on Ubuntu had a Memory error.
- Neha was sitting immediately to the left of Ravi.
- The person using C++ was working on Linux.
- Priya was not using Windows or Fedora.
- The person using JavaScript was not on macOS.
- Kiran was not working on Java or Go.
- The person who had a Syntax error was sitting at one of the ends.
- The person on Fedora was working on Go.
- Ravi was not using Linux or Ubuntu.
- The person on macOS had a Logic error.
- Arjun was sitting somewhere to the right of Kiran.
- The person working on Windows was not using Java.

### Can you find who ordered which coffee?

Your Task:-

Figure out:

- The seating order from left to right

- Which language, OS, and error each person had

Send your answers and the correct one will be posted in the next edition!

# ANSWERS FOR THE PREVIOUS PUZZLE

## Puzzle 1 – The Internship Desk Mystery

Final Allocation:

- Arun → Cybersecurity
- Bella → AI
- Charan → Cloud Computing
- Disha → Data Science



## Puzzle 2 – The Missing USB Drive

Answer:

Meena took the USB drive.

(Only Lokesh's statement is true; Ravi and Meena are lying.)



## Puzzle 3 – The Fridge Lock Code

Valid Code(s):

- 693
- 786

Published Answer (recommended):

693

(All conditions satisfied: digits are different, sum = 15, middle digit is greatest, number divisible by 3.)

# Editor's Note

## January 2026 Edition

A new year always arrives with fresh energy, new goals, and renewed curiosity and January 2026 is no exception. As we step into this promising year, SciTech Magazine invites you to pause, reflect, and most importantly, reset your mindset for growth and innovation.

Technology continues to evolve at an extraordinary pace. Fields like artificial intelligence, cybersecurity, quantum computing, and sustainable engineering are no longer future concepts they are shaping the present. For students and young professionals, this moment offers a powerful reminder: the skills you build today define the opportunities you access tomorrow.

This edition is designed to help you start the year strong. From placement-focused insights and emerging tech highlights to logical puzzles that sharpen your thinking, we aim to support your journey both inside and outside the classroom. January is not about rushing ahead it's about laying a strong foundation, one concept, one project, and one idea at a time.

As you set your goals for the semester and the year ahead, remember that progress is rarely about perfection. It's about consistency, curiosity, and the courage to try. Whether you are preparing for interviews, exploring research avenues, or simply discovering what excites you in technology, know that every step forward matters.

Here's to a year of learning, innovation, and meaningful impact. Let's make 2026 a year where ideas turn into action and knowledge turns into purpose.

# Editor's Note

As we begin 2026, SciTech Chronicles invites our Junior Scholars, faculty, and staff to make this platform the true voice of our School. Whether it's a breakthrough project, a global experience, or a moment of classroom innovation, your story can inspire others.

Share your stories, achievements, reflections, and insights with us in the upcoming editions of SciTech Chronicles. Together, let's celebrate learning, curiosity, and collaboration values that define who we are and where we are headed.

Here's wishing you a year full of innovation.

Editor-in-Chief  
SciTech Chronicles  
Woxsen University



**Prof. Meher Gayatri**  
Assistant Professor  
Editor-in-Chief



**Dr. Anusree B**  
Assistant Professor  
Senior Editor



**Miss. Malyakula  
Ruthwika**  
B.Tech' 28  
Managing Editor



**Mr. Krishna Sankeerth  
Pagoti**  
B.Tech' 28  
Managing Editor