

SciTech Chronicles

SCHOOL OF TECHNOLOGY & SCIENCES

NEWSLETTER

JULY- 2025



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



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"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

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Message



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

-Dr. Peplluis Esteva de la Rosa

Executive Dean
School of Technology

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"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

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SCIENCE AND TECHNOLOGY NEWS

Polaris: Woxsen University's Bold Leap into the Proof Economy

At Woxsen University's School of Technology, a revolution in technical education is reshaping how engineering is taught and experienced. At the heart of this transformation is Polaris—an ambitious academic model designed to prepare students for the Proof Economy, where performance is no longer measured by grades or résumés, but by what you've built, shipped, and proven in the real world. Gone are the days of rote memorization and textbook-based exams. With Polaris, each fortnight begins with a real-world challenge and ends with a working prototype, peer reviews, and a dynamic update to the student's skills graph. Instead of asking, "What did you study?" employers are now asking, "What have you created?" Polaris ensures students can answer with confidence—and evidence.

This approach emphasizes project-first, outcome-based learning. Assessments are weighted 75% on tangible output and just 25% on written exams. Students don't just submit assignments—they contribute open-source code, pitch startup ideas,

file patents, and publish papers in peer-reviewed venues. By graduation, every learner has a portfolio full of real artefacts, not hypothetical exercises.

Polaris also brings industry into the classroom. External reviewers from partner companies provide live feedback at every milestone. From decentralized voting platforms to blockchain-based supply chain trackers, the projects emerging from Woxsen's Polaris model are not academic prototypes—they're production-ready ideas evaluated by professionals who understand the market.

Faculty roles have evolved, too. No longer gatekeepers of information, they serve as design critics and co-creators, working side-by-side with students. Classrooms now feature live compiler integrations, allowing learners to code, debug, and iterate on the spot. It's a setup where innovation isn't just encouraged—it's expected. Polaris is also transforming Woxsen's student culture. Leadership, collaboration, and initiative are baked into the learning experience. The newly inducted class representatives have already begun shaping tech

SCIENCE AND TECHNOLOGY NEWS

clubs, peer-learning groups, and empathy-driven student networks that power everything from hackathons to community outreach.

Orientation sessions now focus heavily on Polaris, introducing second, third, and fourth-year B.Tech students to Employability Tracks, generative AI-powered learning paths, and project-based assessments. Students begin their semester not with lectures, but with live challenges that demand teamwork, creativity, and practical problem-solving.

Perhaps most excitingly, Polaris is turning students into creators of knowledge, not just consumers. Research output is rising, startups are being seeded in classrooms, and Woxsen graduates are stepping into roles not just as coders, but as leaders, founders, and changemakers.

Conclusion: Build or Perish

Dr. Anand Kakarla's words sum up the Polaris spirit:

"2025: The résumé is no longer the default currency of trust.



We've entered the Proof Economy... BUILD OR PERISH. We are building. Builders are welcome at Woxsen." At Woxsen, learning is no longer preparation—it is performance. Polaris is not just an initiative. It is the blueprint for the university of the future—and it's already here.



SCIENCE AND TECHNOLOGY NEWS

FREE Health Camp, which took place at the Old Grampanchayat Area, Kamkole Village!

As the head of Care & Cure — the official clinic of Woxsen University — I was proud to share this community health initiative aligned with UN SDG 3: Health and Well-Being.

What we offered: General health check-ups & ECG

Blood pressure & sugar testing Doctor consultations Free medicine distribution Health awareness & counselling it held on June 20th at 10:00 AM to 1:00 PM which was held at Old Grampanchayat Area, Kamkole Village.

This initiative reflected Woxsen University's commitment to extending quality healthcare beyond our campus boundaries. We believed that early detection saves lives, and community health drives societal progress.



VaidyaAI Officially Launched at Woxsen University!

From nuclear reactor stability to clinical intelligence, VaidyaAI is a breakthrough in healthcare systems engineering. Officially inaugurated by our Vice President in the presence of distinguished faculty, VaidyaAI integrates advanced AI models with real-world clinical workflows, combining the precision of mathematical modeling with the rigor of medical practice.



VaidyaAIMind™ Neural Engine: Multi-modal AI fusing vision and language
Adaptive OCR Fusion Matrix: Handles document variability with reactor-level stability
Clinical Decision Support: Predicts dynamic clinical outcomes using control theory

SCIENCE AND TECHNOLOGY NEWS

**Real-Time Medical Intelligence Layer:
Converts data chaos into clear insights**

The platform is currently in its final validation phase with clinical partners, with a public trial launching soon. VaidyaAI is not just an AI tool—it's where precision engineering meets clinical reality.

A New Academic Journey Begins – Orientation Program

Successful completion of the Orientation Program for 2nd and 3rd year B.Sc. students at the School of Sciences, Woxsen University, held on 25th June 2025.

The event commenced with a warm and motivating Welcome Address by Dr. Beauty Pandey,

Associate Dean, School of Sciences, setting an inspiring tone for the academic year.

This orientation also marked the formal beginning of the Polaris-aligned curriculum, designed to empower students through interdisciplinary learning, industry integration, and a strong foundation in research and innovation.



FACULTY ACHIEVEMENTS

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202511051099 A
(19) INDIA		
(22) Date of filing of Application :28/05/2025		(43) Publication Date : 13/06/2025
(54) Title of the invention : AUTONOMOUS DRONE FOR MEDICAL EMERGENCY DETECTION AND DELIVER		
(51) International classification : G05D0001000000, B64C0039020000, B64U0101300000, H04B0007180000, H04W0004020000 (86) International Application No : NA Filing Date : NA (87) International Publication No : NA (91) Patent of Addition to Application Number : NA Filing Date : NA (92) Divisional to Application Number : NA Filing Date : NA		(71)Name of Applicant : 1)Dr. M.A.H. Farquod Address of Applicant : Faculty of Computer Information Systems, Higher Colleges of Technology, Ras Al Khaimah, UAE 2)Mr. Krishna Vamsi Ganduri 3)Dr. Bhargav Prajwal Pathri 4)Ms. Shreya Manchikanti 5)Ms. Swathi Kiran Pulivarthi 6)Mr. Adwaith yerramshetty 7)Mr.Bijjam Vishnu Vardhan Reddy Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. M.A.H. Farquod Address of Applicant : Faculty of Computer Information Systems, Higher Colleges of Technology, Ras Al Khaimah, UAE 2)Mr. Krishna Vamsi Ganduri Address of Applicant : PhD Scholar, School of Technology, Woxsen University, Telangana, INDIA 3)Dr. Bhargav Prajwal Pathri Address of Applicant : Associate Professor, School of Technology, Woxsen University, Telangana, INDIA 4)Ms. Shreya Manchikanti Address of Applicant : Computer Science and Engineering, School of Technology, Woxsen University, Telangana, India 5)Ms. Swathi Kiran Pulivarthi Address of Applicant : Data Science and Artificial Intelligence, School of Technology, Woxsen University, Telangana, India 6)Mr. Adwaith yerramshetty Address of Applicant : Data Science and Artificial Intelligence, School of Technology, Woxsen University, Telangana, India 7)Mr.Bijjam Vishnu Vardhan Reddy Address of Applicant : Artificial Intelligence and Machine Learning, School of Technology, Woxsen university, Telangana, India
(57) Abstract :		

Dr. Bhargav Prajwal

Mr. Krishna Vamsi and others had published a Patent on Autonomous Drone for Medical Emergency Detection and Deliver.

Dr. Bhargav Prajwal

Mr. Krishna Vamsi and others had published a Patent on SafeLife: Next-Gen Borewell child rescue Robot.

(12) PATENT APPLICATION PUBLICATION		(21) Application No.20251041743 A
(19) INDIA		
(22) Date of filing of Application :30/04/2025		(43) Publication Date : 30/05/2025
(54) Title of the invention : SafeLife: Next-Gen Borewell Child Rescue Robot		
(51) International classification : A61B0005000000, A61B0005024000, A61B0005020000, A61B0005080000, A61B0005145000 (86) International Application No : NA Filing Date : NA (87) International Publication No : NA (91) Patent of Addition to Application Number : NA Filing Date : NA (92) Divisional to Application Number : NA Filing Date : NA		(71)Name of Applicant : 1)Dr. Bhargav Prajwal Pathri Address of Applicant : Professor, School of Technology, Woxsen University, Telangana, INDIA 2)Mr. Krishna Vamsi Ganduri 3)Kommuram Sai Sri Laxmi 4)Karta Vinodha 5)Keta Suchitra Shekhar 6)Mr. Syed Ayan Ahmed 7)Ms. Siddamshetty Vaishnavi 8)Ms. Vempala Thanmayi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Bhargav Prajwal Pathri Address of Applicant : Professor, School of Technology, Woxsen University, Telangana, INDIA 2)Mr. Krishna Vamsi Ganduri Address of Applicant : PhD Scholar, School of Technology, Woxsen University, Telangana, INDIA 3)Kommuram Sai Sri Laxmi Address of Applicant : CSE (DSAI), School of Technology, Woxsen University, Telangana, India 4)Karta Vinodha Address of Applicant : CSE (DSAI), School of Technology, Woxsen University, Telangana, India 5)Keta Suchitra Shekhar Address of Applicant : CSE (DSAI), School of Technology, Woxsen University, Telangana, India 6)Mr. Syed Ayan Ahmed Address of Applicant : Computer Science, School Of Technology, Woxsen university, Telangana, INDIA 7)Ms. Siddamshetty Vaishnavi Address of Applicant : Computer Science Engineering, School of Technology, Woxsen university, Telangana, INDIA 8)Ms. Vempala Thanmayi Address of Applicant : Artificial Intelligence and Data Science, School of Technology, Woxsen University, Telangana, INDIA

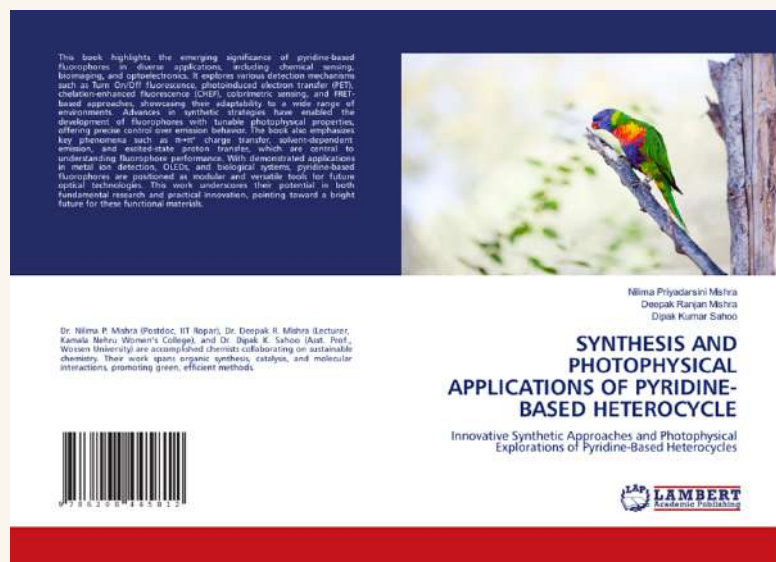
Dr. Segun Ibitoye Emmanuel

has been awarded with Best Author Award 2025.

An overview of biomass solid fuels: biomass sources, processing methods, and morphological and microstructural properties.



FACULTY ACHIEVEMENTS

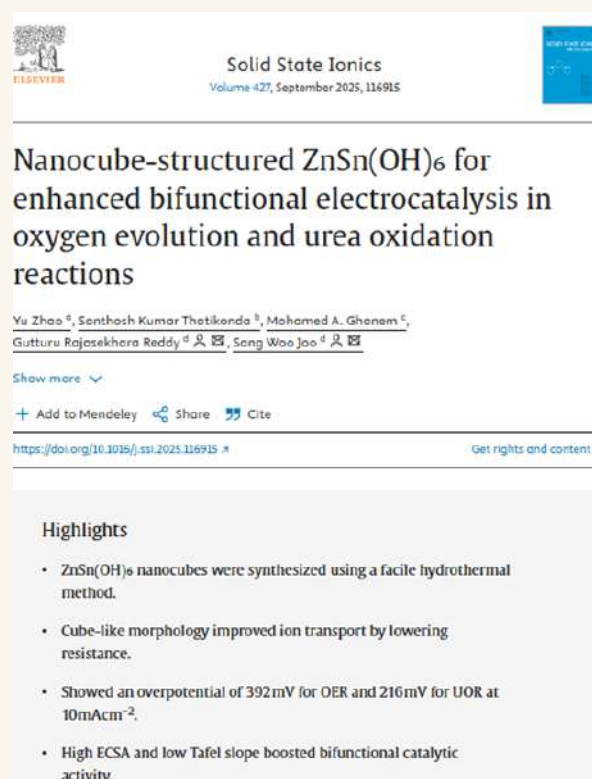


Dr. Dipak Kumar Sahoo has successfully authored and published a book that reflects his academic expertise and research excellence in the field of chemistry. The book offers in-depth insights into advanced chemical concepts with a strong focus on real-world applications, particularly in drug discovery, materials science, and sustainable chemistry.

Designed for students, researchers, and professionals alike, the book bridges theoretical foundations with practical innovations, emphasizing interdisciplinary approaches and emerging technologies. Dr. Sahoo's publication not only contributes valuable knowledge to the scientific community but also underscores his commitment to advancing education and research in chemical sciences.

Dr. T Santhosh

Published research article on ScienceDirect. This research investigates the development of bifunctional electrocatalysts for renewable energy applications, specifically water splitting and urea oxidation. Nanostructured zinc hydroxystannate ($\text{ZnSn}(\text{OH})_6$; ZHS) was synthesized and characterized as a potential catalyst for these reactions.



STUDENTS' ACHIEVEMENTS

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

Meghashyam has actively participated in HACKGENSIS 2025, A 9-hour National Level Hackathon on Open Innovation held on 21st June 2025, organized by GLEC College, Hyderabad.



Srikanth K has received a Certificate of Registration of Design on “BABY SMART TOY”, on 16th June 2025.



T Harsha Vardhan Reddy

Harsha received a certificate of participation in AINCAT 2025 – India’s biggest Career Aptitude Test conducted by Naukri Campus.





Vedith received a certificate of professional excellence for completing the course on IBM Generative AI Engineering Professional Certificate on 27th June 2025.

We are also congratulate our outstanding students Drithi Sadhupati (B.Tech, 2027), Sojith Koganti (B.Tech, 2026), and Vaishnavi (BBA, 2025) for their remarkable success at the prestigious MSME Idea Hackathon 4.0 by the Ministry of Micro, Small and Medium Enterprises, Government of India

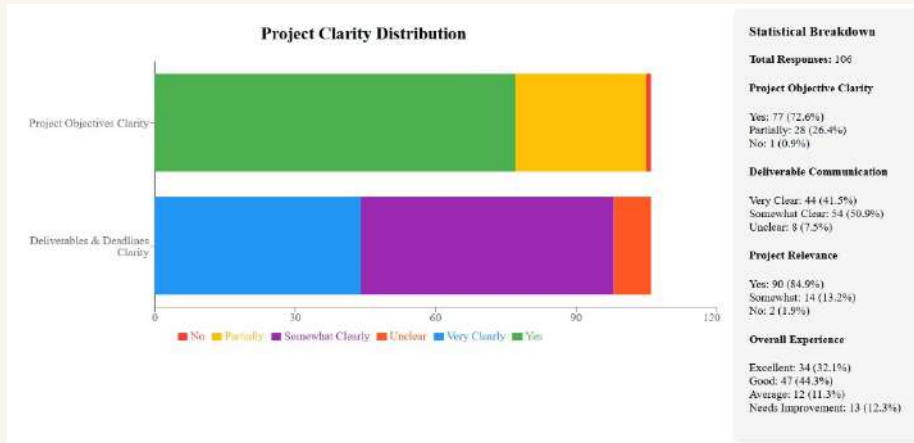
Their innovative projects focusing on:

- Sustainable fishing nets
 - Robotics automation for reviving traditional crafts
 - Sustainable development initiatives
- have earned them an impressive funding of ₹57.75 Lakhs - a testament to their creativity, dedication, and entrepreneurial spirit!

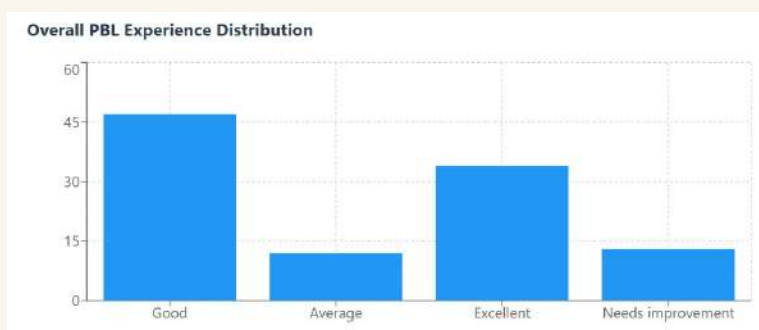
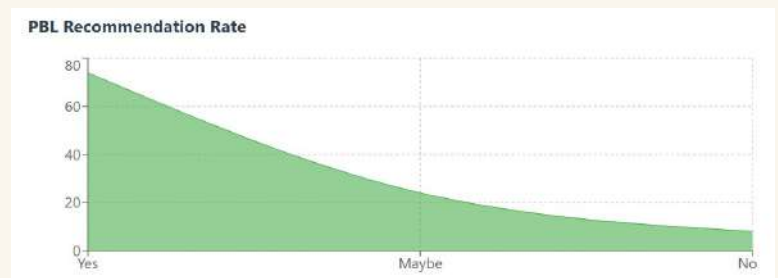
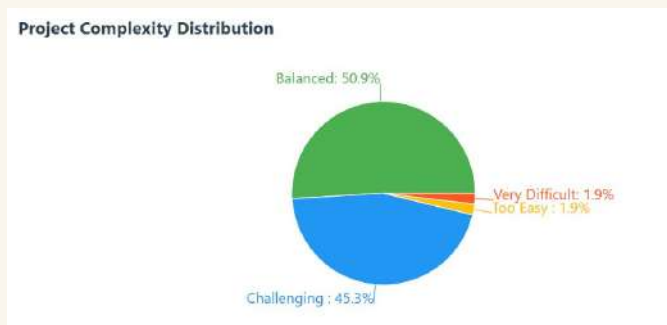
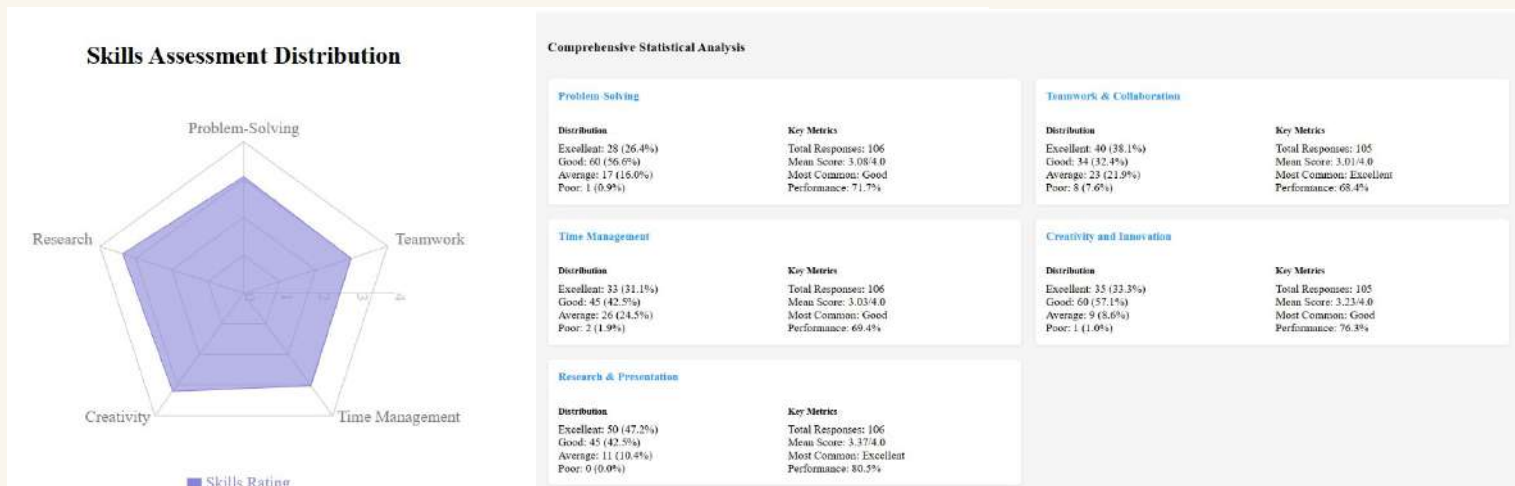


Aditya G received a certificate of completion on Technology Job Simulation for completing the practical task on Coding Development on 24th June 20254 by Deloitte.

PROJECT BASED LEARNING A POLARIS INITIATIVE



The School of Technology proudly conducted a structured Project-Based Learning (PBL) initiative for the first-year B.Tech students, designed to blend foundational technical skills with real-world problem solving. The initiative integrated key subject areas: IoT, Data Structures, Object-Oriented Programming, and English.



Key Observations :

1. Alignment with CLOs
2. Structure & Planning
3. Student Engagement & Collaboration
4. Challenges Faced
5. Outcome Achievement
6. Evaluation and Fairness

CORPORATE ALIGNMENT BRIDGING ACADEMIA AND INDUSTRY

The School of Technology at Woxsen University continues to strengthen its commitment to industry readiness through a series of robust corporate alignment initiatives. June 2025 has seen significant strides across internships, certifications, and experiential learning, positioning our scholars at the forefront of innovation and opportunity.

One of the key highlights this month is the successful collaboration with Piazza Consulting Group (PCG), under which a pipeline of nine reputed companies is being facilitated for internship opportunities. This partnership exemplifies our proactive outreach in securing meaningful industrial exposure for students.

Furthering our focus on skill-building, industry-leading certification tracks from IBM, Pega, and Salesforce have been introduced. In a major development, IBM is set to visit the campus next month to detail these pathways, offering our students insights into emerging technologies and the relevance of these certifications in the job market.

In terms of placements, 11 scholars have been selected by HighRadius, a testament to the increasing trust corporate leaders place in our talent pool. June alone witnessed nearly 50 internship offers, spanning both third- and fourth-year students, reflecting a steady surge in industry engagement.

Preparation for the upcoming placement season is well underway in collaboration with the Center of Talent Development (COTD). A focused roadmap is being executed to ensure our students are not just eligible but also industry-ready, equipped with technical skills and professional acumen.

On the academic front, an event calendar for third-year students has been thoughtfully curated to blend learning with leadership. Additionally, orientation and induction programs have been successfully conducted, easing the transition for new students and aligning them with Woxsen's vision of integrated education.

Innovation in learning continues to be a core value, with Project-Based Learning (PBL) projects for DevOps and Machine Learning now fully identified.

These projects are set to promote a hands-on, research-oriented culture among scholars. Lastly, the newly revamped guidelines for Polaris, the school's flagship academic assessment model, have been implemented across classes. These changes integrate PBL, continuous assessments, and reflective practices, reinforcing our outcome-based education philosophy.

As Woxsen's School of Technology evolves, these updates symbolize a dynamic, future-ready ecosystem that connects classroom learning to real-world impact.

PUZZLE TIME !

Terminal Access:

Level 7

You're inside a highly secure mainframe, trying to regain access to your user privileges. The AI guarding the system has locked you out of your account.

You're presented with a terminal interface and a challenge:

"You must deduce the correct access code – a 7-digit binary sequence (each digit is either 0 or 1).

For every code you try, I will return a diagnostic response that tells you how many digits are in the correct position."

Your AI assistant has already attempted the following 4 guesses and logged the diagnostic responses:

Attempts	Input Code	Digits Correct (Right Bit, Right Position)
1	1011010	3
2	1100101	2
3	0110110	4
4	0011110	5

Rules:

- Each code is 7 digits long, only made of 0s and 1s.
- "Correct digits" are those that match the final code in both value and position.
- There is only one correct answer.
- You must logically deduce the final code using the diagnostic feedback – no brute force.

The Puzzle

What is the correct 7-digit binary access code?

ANSWERS FOR THE PREVIOUS PUZZLE

The Library of Shadows

Rules:

Only one book may be opened at a time. After opening a book, it gives a coded riddle hinting at which book should come next. You may take notes, but cannot open more than one book at once. You must open all seven books in the correct sequence to escape. You begin with the following first clue, already inscribed on the central pedestal: "Stone is never first. Oak is third if Iron isn't second. Silk follows Ash but not immediately. Glass comes before Silk. Leather is earlier than Ash but not the first. The Iron-bound book is not adjacent to the Oak-bound one."

The Puzzle

In what order should you open the seven books?

So the **final sequence** is as follows

1. Iron-bound
2. Leather-bound
3. Oak-bound
4. Glass-bound
5. Ash-bound
6. Stone-bound
7. Silk-bound

Editor's Note

July 2025 Edition – A New Academic Year Begins

A warm welcome to all our students, faculty, and scholars as we embark on a brand new academic year at Woxsen University!

July marks more than just the turning of a calendar it signifies fresh beginnings, renewed ambition, and a shared commitment to excellence. As we open the doors to new classrooms, research labs, and collaborative spaces, we also open ourselves to possibilities that stretch far beyond the syllabus. The year ahead brings with it immense opportunities: new projects, global partnerships, emerging technologies, and countless avenues for personal and professional growth.

To our Junior Scholars, this is the beginning of a transformative journey - one filled with challenges, but also brimming with support, mentorship, and discovery. To our returning community, let this year be a reminder of how far we've come, and how much more we can achieve together.

Editor's Note

With innovation as our ethos and integrity as our compass, let us make this academic year one of meaningful impact, purpose-driven learning, and unstoppable momentum.

Here's to a year of bold ideas, collaborative spirit, and relentless pursuit of excellence. Let the work begin and with it, the growth.

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