



i360 NEWSLETTER

2024

VOLUME 17 - SEPTEMBER

In Spotlight

Captain Umang N. Jani

Hod, IIATE(Technical)
Indus University



"Bharat ke Ratna Awards"

A Proud Moment for Indus University and WIIA.

Founder of WIIA and Honourable Presidential Secretariat, Dr. Nagesh Bhandari, has recently been awarded the prestigious "Bharat Ke Ratna Award 2024" by Dr. Mansukh Mandaviya, Cabinet Minister and Minister of Labour and Employment of India, in New Delhi on 25th September 2024.

Dr. Bhandari was accompanied by Miss Radhika Bhandari, Dean of Aviation, at the award ceremony hosted by the renowned print media, "Divya Bhaskar." This recognition honours Dr. Nagesh Bhandari for his remarkable personal and professional accomplishments. Let us come together to congratulate Dr. Bhandari on this well-deserved honour!



Dr. Nagesh B. Bhandari

"Celebration - Vishwakarma Jayanti"

Shri. Vishwakarma Pooja was organized by WIIA-IIATE on 17th September-2024 on occasion of Vishwakarma Jayanti in WIIA workshop. Pooja was performed by Dr. Nagesh Bhandari, Presidential Secretariat and founder-WIIA, Indus Uni, Smt. Dr. Ritu Bhandari, Presidential Secretariat, Indus Uni and Ms. Radhika Bhandari, Dean IIATE, Director-WIIA. All staff members of WIIA and Indus Uni. and Students of WIIA had actively participated in this Puja.



WIIA-IIATE

MoU were signed for Actual Maintenance Training between Western India Institute of Aeronautics Pvt. Ltd and IndiGo Airlines on Date: 03rd September 2024. Behalf of WIIA, Ms. Radhika N. Bhandari (Dean-IIATE, Director-WIIA) and Behalf of IndiGo Mr. Kumar Raghvendra Director-Training, IndiGo had signed MoU in presence of Students and Staff members of WIIA and IIATE.



"Indus University Student Shines in Environmental Quiz Competition!"

Indus University is proud to congratulate Jay Raval (Enrollment No: IU2241050051), a B.Tech Computer Engineering student at Indus Institute of Technology and Engineering (IITE), for his outstanding achievement! Jay secured the 2nd runner-up position in the environmental quiz competition titled "Prakruti ne Prashne". The grand finale of the competition was held on August 1st, 2024, at Doordarshan Studio, Ahmedabad, and was organized by DD Girnar. Jay's impressive knowledge and performance earned him recognition and a spot on the podium. The competition will also be telecast on the DD Girnar channel, providing a wider audience to witness his accomplishment. This achievement highlights Jay's dedication to environmental awareness and his commitment to learning beyond the classroom. Indus University applauds Jay's success and wishes him continued success in his future endeavors.



"IIMS Faculty Gains Expertise in Systematic Literature Reviews"

Renowned experts Dr. Krunal Soni and Dr. Jyoti Pandey shared their insights on systematic literature reviews, data extraction, and analysis during a faculty development program at IIMS on August 31, 2024. The program was attended by esteemed university dignitaries, including Prof. Dr. Sandeep Chakraborty, Prof. Dr. Ved Vyas Dwivedi, Dr. R.K. Singh, and Dr. Suketu Jani.



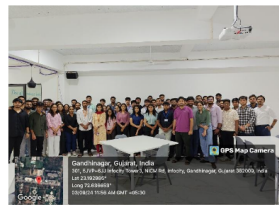
"Indus University Upskills Students with US CMA Program"

We're thrilled to announce a new partnership between Indus University and the International Skills Development Corporation (ISDC)! This collaboration, spearheaded by Lt. Dr. Parshva Shah, will offer a prestigious US Certified Management Accountant (US CMA) program to our BBA, MBA, and B.Com (Hons.) students. The US CMA program equips students with advanced knowledge and skills in management accounting. This valuable credential will enhance their career prospects by: Boosting their expertise in financial planning and analysis, Developing critical decision-making capabilities, Demonstrating a commitment to professional excellence. This exciting partnership signifies Indus University's dedication to providing students with the most sought-after skills in today's job market.



"IITE Students Gain Insights into Odoo at Industrial Visit"

On September 3, 2024, the IT branch of IITE took their SEM 7 students on an industrial visit to Odoo, a leading technology company in Infocity, Gandhinagar. The visit was coordinated by Assistant Professors Sheetal Panchal and Sanjay Prajapati, providing students with valuable insights into the company's operations and industry trends.



"IITE Faculty Member Achieves Data Visualization Expertise"



Ms. Sheetal Panchal, Assistant Professor at IT, IITE, has successfully completed the Advanced Certification Program in Data Visualization & Modeling using Orange Software. Organized by the Department of Research & Publication on August 28, 2024, the program equipped Ms. Panchal with valuable skills to enhance her teaching and research capabilities.

"Behind the Mic: IITE Students Explore Radio Mirchi"

On August 30, 2024, the first-semester Diploma Engineering students at IITE embarked on an industrial visit to Radio Mirchi in Ahmedabad. Coordinated by Dr. Rashmi Sharma and Mr. Abhishek Vaghela, the visit provided students with a firsthand look at the operations of a leading media organization, offering valuable insights into the radio industry. A total of 64 students participated in the event.

"IITE Faculty Member Enhances ICT Integration Skills"



Dr. Zalak Patel, a faculty member in the Department of Electronics and Communication Engineering at IITE, has successfully completed the Faculty Development Programme on "Harnessing the Power of ICT Integration in Outcome Based Education," organized by the Electronics and ICT Academy, IIT Roorkee, from August 24-30, 2024.

"IITE Students Explore Space Applications at BISAG-N Visit"

The Departments of Electronics and Communication Engineering (ECE) and Electrical Engineering (EE) at IITE successfully organized an industrial visit to Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N) on September 25, 2024. BISAG-N, an autonomous scientific society under the Government of India, focuses on space exploration, technology development, and related research. This insightful visit provided a unique learning opportunity for 70 B.Tech (EC/ICT/EL) students from semesters 1 and 3. Accompanied by Dr. Hinal Shah and Mr. Jagdish Gohel, the students gained valuable exposure to the exciting world of space applications and geo-informatics. This well-organized visit will undoubtedly spark a passion for technology and research in the young minds of IITE's future engineers.

"Mastering AutoCAD: A Must-Have Skill for Civil Engineers"

The Civil Engineering Department at IITE conducted a two-day workshop on "AutoCAD Essentials: A Hands-On Introduction for Beginners." The workshop aimed to equip students with the essential skills needed to excel in civil engineering, including precision in design, industry standard proficiency, improved drafting skills, enhanced visualization, problem-solving abilities, time efficiency, collaboration with other disciplines, and versatility. The workshop covered core drafting and design skills, spatial visualization, logical thinking, attention to detail, problem-solving, time management, and facilitated interdisciplinary collaboration. The event took place on September 4th and 6th, 2024, and was coordinated by Dr. Samir Patel and Dr. Jishnu Gohe. Dr. Payal Mehta convened the event, Dr. Ishbir Singh chaired the session, and Mr. Pratik Nayi served as the expert.

"IITE Bridges the Gap Between Parents and Teachers"

The Civil Engineering Department at IITE successfully hosted a Parents-Teachers Meeting on September 6, 2024. With a strong turnout of 75% student attendance alongside their parents, the meeting provided a valuable platform for open communication and collaboration. The session focused on discussing students' academic progress and overall well-being. Parents and teachers engaged in productive discussions, sharing insights and working together to create a supportive learning environment. This successful meeting highlighted IITE's commitment to fostering strong partnerships between parents and educators.

"IITE Prioritizes Mental Health with World Suicide Prevention Day Event"

The Civil Engineering Department at IITE, in partnership with the Student Activity Cell and the Government Hospital for Mental Health, Ahmedabad, hosted a meaningful event on September 10, 2024, to commemorate World Suicide Prevention Day. Dr. Deepti Bhatt, a Senior Consultant in Psychiatry, led an insightful session on mental health awareness. Students actively engaged in discussions, gaining valuable knowledge about mental health issues and prevention strategies. The event was a resounding success, highlighting IITE's commitment to fostering a supportive and inclusive environment for its students.

"Portable Pit Hole Hazard Indication Stand: Patent Announcement"

We are pleased to announce the successful publication of a new patent for a Portable Pit Hole Hazard Indication Stand, developed by Priyank Trivedi and Pradeep Jangir. This innovative design has been granted UK Design number 6387539 and was published on September 9, 2024. This groundbreaking invention addresses a critical safety concern on roads by providing a highly visible and portable warning system for potholes. The stand is designed to be easily placed near hazardous potholes, alerting drivers to the potential danger.

"An Eco-Friendly Electrochemical Oxidation Process for the Synthesis of High Purity Vanadium Oxide Nanopowder"

We are delighted to announce the successful publication of a new Indian patent for an innovative electrochemical oxidation process for the synthesis of high purity vanadium oxide nanopowder. The patent, number 202421061949, was published on September 6, 2024. This groundbreaking process offers a sustainable and environmentally friendly alternative to traditional methods for producing vanadium oxide nanopowder. The electrochemical oxidation technique eliminates the need for harmful chemicals and reduces the overall environmental impact.

"IITE Faculty Member Gains Expertise in Renewable Energy and Electric Vehicles"

Dr. Dharmendra Sapariya and Dr. A.D. Dhass, Assistant Professors in the Mechanical Engineering Department at IITE, have deepened their knowledge of renewable energy, electric vehicle charging, and grid integration through participation in a Faculty Development Program (FDP). The FDP, titled "Renewable Energy, Electric Vehicle Charging and Grid Integration: An Introduction," was held from August 12 to 17, 2024, at Sri Sai Ram Institute of Technology, West Tambaram, Tamil Nadu, India.



"IITE Faculty Member Joins ASME Gujarat Section Launch"

Dr. Dhiren Patel, a faculty member at IITE, attended the launch of the ASME Gujarat Section on September 13, 2024, at PDEU, Gandhinagar. His presence demonstrated IITE's support for ASME's expansion and its commitment to fostering engineering excellence in the region.

"IITE Faculty Member Gains Insights into Future Engineering Trends"

Dr. Dhiren Patel, a faculty member at IITE, attended an expert talk on "Future Engineering: Trends, Drivers & Skills" delivered by Dr. Dhaval Pujara, Director of the School of Technology at Pandit Dindayal Energy University, Gandhinagar. The talk took place on September 13, 2024.

"Dr. Dhiren Patel Recognized as Reviewer for Top Journals"

We are thrilled to announce that Dr. Dhiren Patel, a distinguished faculty member at IITE, has been selected as a reviewer for three prestigious international journals. His expertise and contributions to the field of research have been acknowledged by the following publications:

- * International Journal on Interactive Design and Manufacturing (IJIDeM): An ESCI and Scopus-indexed journal with an Impact Factor of 2.1.
- * Measurement: An SCI and Scopus-indexed journal by Elsevier with an Impact Factor of 5.6 and a CiteScore of 9.
- * International Journal of Intelligent Systems: An SCIE and Scopus-indexed journal by Wiley with an Impact Factor of 5.0.

This recognition is a testament to Dr. Patel's exceptional research capabilities and his dedication to advancing academic excellence. His involvement as a reviewer for these highly regarded journals underscores IITE's commitment to fostering a culture of research and innovation.

"Dr. Dhiren Patel Publishes Groundbreaking Research in Materials Science"

We are delighted to announce the publication of a new research paper co-authored by Mr. Chandrakant Bhatia and Dr. Dhiren R. Patel, faculty members at IITE. Their groundbreaking work, titled "Comparative Evaluation of Formability in Cup Drawing and V-Bending Using Additively Manufactured Tools," has been featured in the prestigious journal *Advances in Materials and Processing Technologies* (Taylor & Francis). This significant achievement highlights IITE's commitment to cutting-edge research and innovation in the field of materials science. The research paper, indexed in both ESCI and Scopus with an Impact Factor of 2.1, presents valuable insights into the use of additively manufactured tools in metal forming processes.

"Dr. Vineeta Chauhan Recognized for Contributions to AI Congress"

We are delighted to announce that Dr. Vineeta Chauhan, a valued member of the IITE faculty, has received a Certificate of Appreciation for her significant contributions to the 5th Congress on Intelligent Systems (CIS 2024). Organized by CHRIST, Bangalore, and Liverpool Hope University, UK, from September 4-5, 2024, CIS 2024 brought together leading experts in the field of artificial intelligence. Dr. Chauhan's active participation as a Technical Program Committee Member and Reviewer played a crucial role in the success of the congress. This recognition highlights Dr. Chauhan's expertise and dedication to advancing the field of artificial intelligence. Her contributions to CIS 2024 have helped to foster innovation and collaboration among researchers and practitioners worldwide.

"Powering the Future: Dr. Vineeta Chauhan's New Chapter on Hybrid Renewable Energy Systems"

Dr. Vineeta Chauhan has made her mark with the publication of her book chapter, "Metaheuristic Algorithms for Optimal Sizing of Hybrid Renewable Energy Systems," featured in the Scopus-indexed book *Metaheuristics and Machine Learning Optimization Strategies for Complex Systems*, published by IGI Global.

"Vishal Chudghar Attended Life Saving Training Course"

Vishal Chudghar successfully completed a one-day Basic Life Support (BLS) training course on Tuesday, September 10th, at the Red Cross Society, Gujarat State Branch in Vadaj.

"Breaking Boundaries: SIF24 Sets a New World Record"

In a groundbreaking effort to foster scientific curiosity and innovation among Gujarat's students, Vigyan Gurjari, the Gujarat Unit of Vijnana Bharti, organized the world record-setting Student Innovation Fest 2024 (SIF24). Over 12 days, 660 esteemed academicians, scientists, and industry experts from renowned institutions across the state delivered inspiring lectures on Indian science, the contributions of Indian scientists to the global stage, and the latest advancements in technology and innovation. A massive audience of over 70,000 students from various schools and colleges had the opportunity to be part of this extraordinary event. Dr. Sweta Shah, the nodal officer for Vigyan Gurjari, played a pivotal role in organizing various sessions at Indus University. Renowned faculty members such as Prof. (Dr.) Vedvyas Dwivedi, Prof. (Dr.) R. K. Singh, Prof. (Dr.) Sujoy Chaudhary, Prof. (Dr.) Ishbir Singh, Prof. (Dr.) K. C. Roy, Prof. (Dr.) Falguni Tandel, Capt. Umang Jani, Dr. Umang Patdiwala, and Dr. Sweta Shah herself conducted engaging lectures, inspiring the students to explore the fascinating world of science and technology. SIF24 was more than just an event; it was a catalyst for innovation and a testament to the power of education. By bringing together experts from diverse fields, the fest provided students with invaluable insights and opportunities to connect with like-minded individuals. The record-breaking participation and the positive impact on the students showcased the immense potential of Gujarat's youth in shaping the future of science and technology.

"Cracking the Code: Math Hacks for Cyber Security"

The Department of Mathematics recently hosted a fascinating session on "Applications of Mathematics in Cyber Security." Led by the esteemed Dr. Bhavadip Moghariya from the School of Engineering and Technology at Gujarat Technological University, Ahmedabad, the session captivated over 55 eager B.Tech. 1st Semester Cyber Security students. Dr. Moghariya unveiled the secret weapon against cyber threats – mathematics! He delved into how seemingly abstract concepts like cryptography, number theory, and algorithms form the bedrock of securing digital information. By weaving real-world examples into his lecture, Dr. Moghariya demonstrated how these principles translate into practical solutions for cyber security challenges. This interactive session provided first-semester students with a crucial foundation, equipping them with the mathematical tools they'll need to become future cyber security warriors.



"Python Power-Up: ISHLS Faculty Enhance Programming Skills"

The Department of Mathematics at ISHLS recently organized a dynamic "Train the Trainer" program titled "Python Programming: A Hands-on Workshop for Faculty." The workshop, held on Saturday, September 14, 2024, aimed to equip ISHLS faculty members with the essential Python programming skills needed to excel in their academic endeavors. Under the expert guidance of Dr. Akash Thakkar from the Department of Mathematics, participants were immersed in an interactive learning experience that covered the fundamentals of Python programming. The workshop focused on practical application, empowering faculty members to write efficient code and grasp core programming concepts. By honing their Python skills, faculty members can now integrate this versatile language into their teaching and research, opening up new avenues for innovation and collaboration across various academic disciplines.



"Dr. Chetana Deoghare's Research Recognized at VCCA-2024"

Dr. Chetana Deoghare, an Assistant Professor, made significant strides in the field of chemistry by attending and participating in the Virtual Conference on Chemistry and its Applications (VCCA-2024) in Mauritius. The conference, themed "Transforming Chemistry and Interdisciplinary Research to Innovation," provided a platform for Dr. Deoghare to present her groundbreaking research on "Curcumin-Itaconic Acid Conjugate with Ester Linkage as Potential Future Anti-Cancer Agent." In recognition of her outstanding contribution, Dr. Deoghare has been invited to submit her research manuscript for publication in two prestigious journals:

1. Pure & Applied Chemistry, published by De Gruyter in Berlin, Germany.
2. Journal of Molecular Modeling, published by Springer Nature.

This invitation is a testament to the quality and significance of Dr. Deoghare's research, which holds the potential to make a substantial impact in the field of cancer research.

"Dr. Nikunj Valand Shares Insights on Traditional Health Practices"

Dr. Nikunj Valand, an esteemed Assistant Professor, contributed his expertise as a delegate to an expert session titled "Protect Health with an Ancient/Traditional Lifestyle." The session was organized by the Indus Institute of Pharmacy and Research (IIPR) at Indus University, Ahmedabad, on September 14, 2024. Dr. Valand's participation in this event highlights his commitment to sharing knowledge and promoting holistic health practices. His insights on traditional lifestyles likely offered valuable perspectives to the audience, fostering a deeper understanding of ancient wisdom and its potential applications for modern well-being.

"Dr. Nikunj Valand Achieves Academic Excellence"

Dr. Nikunj Valand, an Assistant Professor, has demonstrated his dedication to academic growth by successfully completing the Career Advancement Scheme (CAS) promotion program offered by the UGC-Malaviya Mission Teachers Training Centre at Saurashtra University, Rajkot. The program focused on Research Methodology & Ethics and was conducted from July 22nd to July 27th, 2024. Dr. Valand's exceptional performance earned him an impressive A grade. This accomplishment reflects Dr. Valand's commitment to continuous learning and his pursuit of academic excellence. His successful completion of the CAS program positions him well for future career advancements and contributions to the field of research.



"Dr. Ayushi Patel Advances Nanotechnology Research at INUP-i2i Workshop"

Dr. Ayushi Patel, an esteemed Assistant Professor in the Department of Physics at IIHLS, Indus University, has expanded her knowledge and expertise in nanotechnology by participating in the INUP-i2i, "16th User Awareness Workshop on Device Fabrication & Characterization Facility for Nanotechnology." The workshop was held online at IIT Delhi during August 29-30, 2024. Dr. Patel's participation in this workshop is a testament to her dedication to research and her commitment to staying at the forefront of technological advancements in nanotechnology. The workshop likely provided her with valuable insights into the latest techniques and methodologies used in device fabrication and characterization, further enhancing her research capabilities and contributing to the growth of nanotechnology research at IIHLS.



"Unveiling Solar Power: IISHLS Students Tour Australian Premium Solar"

The Department of Physics at IISHLS organized a fruitful visit for B.Sc. and M.Sc. Physics, Chemistry, and Mathematics students to the Australian Premium Solar (India) Ltd. manufacturing plant near Prantij, Himmatnagar, on September 4th, 2024. Mr. Spandan Ranpariya, a faculty member, meticulously coordinated the visit. This immersive experience provided students with a firsthand look at the fascinating world of solar power generation. The visit included demonstrations of various technologies used to fabricate different types of solar panels from solar cells. Students also gained valuable insights into the materials used in solar panel construction and even received samples for further exploration. Overall, this industrial visit offered a valuable opportunity for IISHLS students to bridge the gap between theoretical knowledge and real-world applications of solar technology. It likely ignited their curiosity and fostered a deeper appreciation for the science and technology behind sustainable energy solutions.



"IISHLS Celebrates National Space Day with Expert Talk and Poster Competition"

The Department of Physics at IISHLS, in collaboration with the Astro Club and iSAC, marked National Space Day on August 23, 2024, with a captivating event open to all students, faculty, and staff at Indus University. The event featured an engaging expert talk followed by a vibrant poster competition. Over 300 enthusiastic students showcased their creativity and knowledge on the theme of Astro Physics and Space Science. The expert talk provided valuable insights from a renowned astronomer, while the poster competition showcased a dazzling array of designs. The combination of these two events created a unique and immersive experience for all participants. The expert talk enlightened attendees with fascinating information about astronomy, while the poster competition allowed students to express their ideas and creativity in a visually stunning manner. The range of topics covered in the posters was impressive, demonstrating the diverse interests and perspectives of the participants. The event was expertly coordinated by Dr. Manisha Vithalpura, Dr. Nisha Thankachen, and Dr. Rishit Shukla, who ensured a seamless and enjoyable experience for everyone involved.



"Dr. Nikita Gadani Enhances Indian Knowledge Systems Expertise"

Dr. Nikita Gadani, an Assistant Professor in the Department of Languages (English), participated in an online Faculty Development Program focused on "Contribution of Indian Knowledge Systems in Various Fields." The program was jointly organized by Arka Jain University, Jharkhand, and Nucleus of Learning and Development and took place from September 16th to 21st, 2024. Dr. Gadani's participation in this program reflects her dedication to professional development and her interest in exploring the rich heritage of Indian knowledge systems. By attending this program, she likely gained valuable insights into the contributions of Indian scholars and thinkers across various disciplines, which can enhance her teaching and research endeavors.

"IIICT Offers Hands-on Filmmaking Course"

The Department of Computer Science at IICT recently conducted a successful Certification Course on "Filmmaking Techniques." Held from August 20th to 31st, 2024, the course aimed to equip participants with a solid foundation in filmmaking principles and practical skills. Through a combination of theoretical knowledge and hands-on experience, participants delved into the intricacies of pre-production, production, post-production, and release procedures for scripts. To reinforce their learning, they had the opportunity to shoot their own short films on campus or in classrooms, applying their newfound knowledge to real-world filmmaking scenarios. This comprehensive course provided participants with a valuable skill set, enabling them to embark on their own filmmaking journeys or contribute to the creative industry.



"Data Dive: IICT's Python and R Certification Course"

The Department of Computer Science at IICT recently launched a 30-hour certification course that transformed raw data into valuable business insights. Titled "Data Analytics Using Python & R - From Raw Data to Business Stories," the course attracted over 100 eager students who sought to master the art of data analysis. The course, which kicked off on September 2, 2024, provided participants with a comprehensive understanding of data analytics techniques using the powerful programming languages Python and R. By the end of the program, students were equipped with the skills to extract meaningful information from complex datasets and leverage their findings to inform strategic decision-making. This certification course offered a valuable opportunity for IICT students to develop a sought-after skill set in today's data-driven world. It empowered them to become proficient data analysts, capable of turning raw data into actionable business intelligence.



"ACSIT Welcomes New Panel of Student Leaders"

The Association of Computer Science and Information Technology (ACSIT) at DCS, IIICT, Indus University, recently announced the election of a new panel of student leaders for the academic year 2024-2025, effective September 25th, 2024. To congratulate the newly elected members and clarify their roles and responsibilities, a meeting was held with Prof. Dr. Rajiv Mathur, Director of DCS, IIICT, Ms. Bhavana Hotchandani, HOD (I/C), and other faculty coordinators. The meeting provided an opportunity for the new leaders to discuss upcoming events and plan their activities for the year ahead. This transition of leadership marks an exciting new chapter for ACSIT, and the newly elected panel is poised to contribute significantly to the department's vibrant student community.



"Dr. Amrita Sharma Advances Teaching Skills with OOBENEP24 Certification"

Dr. Amrita Sharma, an esteemed Assistant Professor at IIICT, has further strengthened her teaching expertise by completing a one-week Faculty Development Program titled "Methods for Improving Higher Education Teaching Quality Using Outcome-Based Education, Pedagogical Approaches, and NEP 2020 (OOBENEP24)." The program was organized by the Department of Computer Science & Engineering in collaboration with IQAC at Haldia Institute of Technology from July 22nd to 26th, 2024. Dr. Sharma's successful completion of this program demonstrates her dedication to continuous professional development and her commitment to providing high-quality education to her students. By acquiring knowledge and skills in outcome-based education, pedagogical approaches, and the National Education Policy 2020, Dr. Sharma is well-equipped to enhance her teaching practices and foster a more effective and engaging learning environment.

"Dr. Amrita Sharma Advances Teaching Skills with OOBENEP24 Certification"

Our semester 3 students, Batch 2024, made a significant mark at the regional Jury of the COA Awards 2024, held at Navrachna University, Vadodara. Their heritage documentation project, a part of RSP-2 under the guidance of Asst. Professor Ar. Aditya Jain, was among the select 20 entries chosen for the next stage of the competition. The event was a valuable learning experience. Students not only showcased their work but also had the opportunity to engage with expert feedback during the walkway review of submitted panels. It was a proud moment for our college as our students represented us at such a prestigious platform, gaining valuable insights into composition and documentation techniques."

"Indus University Explores Traditional Health Secrets"

Rakshith Chhatrala and Vishal Chudgar, two of our talented students, recently attended an informative expert talk and interactive session organized by IIPR, Indus University. The event, held on Saturday, September 14th, focused on the theme of "Protect Health with an Ancient/Traditional Life Style" and took place in the MBA Seminar Hall of the university's main building. This session provided our students with valuable insights into traditional health practices and their relevance in today's world. It was a great opportunity for them to learn about alternative approaches to wellness and explore how ancient wisdom can be applied to modern lifestyles.

"Celebrating Hindi Diwas with a Devnagri Workshop"

In honor of Hindi Diwas, Indus University hosted a special Devnagri workshop led by our talented Design faculty member, Dilbag Singh. The event provided students with a unique opportunity to delve deeper into the intricacies of the Devnagri script. Through engaging exercises and expert guidance, participants gained a newfound appreciation for the script's structure, history, and cultural significance.

"Indus University Rocks 'College Ke Tashanbaaz'"

On September 3, 2023, Indus University's Student Activity Cell hosted a thrilling edition of 'College Ke Tashanbaaz,' a talent competition brought to you by RED FM. The event, which ran from 2:30 PM to 4:30 PM, showcased the incredible talents of our students in singing, dancing, music, and poem recitation. A panel of esteemed judges, including RJ Dhruvil, evaluated the performances to select the top contender from Indus University. The winner will have the exciting opportunity to represent our university at the Ahmedabad-level competition. The event venue was packed with enthusiastic students who cheered on their peers, creating a vibrant and energetic atmosphere. 'College Ke Tashanbaaz' was a memorable experience that celebrated the diverse talents of our students and fostered a sense of community and engagement within the Indus University community.



"A Tribute to Teachers: Indus University's Heartfelt Celebration"

Indus University celebrated Teachers' Day with great fanfare on September 5, 2024, under the leadership of the Indus Student Activity Cell (iSAC). The event was a heartfelt tribute to the dedicated educators who have played a crucial role in the growth and success of our students and the university as a whole. The celebration kicked off with a warm welcome from iSAC members, expressing their sincere gratitude on behalf of the entire student body. A touching video montage featuring messages from various teachers was a highlight of the event, offering valuable insights and words of wisdom. A mesmerizing classical dance performance dedicated to "Guruvandana" paid homage to our teachers in a traditional and reverential manner. The celebration continued with a series of entertaining retro-themed dances and musical performances, creating a nostalgic and joyful atmosphere. Students also actively engaged teachers in interactive activities, including a fun-filled quiz and exciting games. The event concluded with a sense of celebration and togetherness, leaving everyone with cherished memories and a deeper appreciation for the bond between students and teachers at Indus University.



"SIH 2024: Indus University's Next-Gen Problem Solvers"

The Indus Center for Startups Innovation & Incubation (ICSII) and the R&D Cell at Indus University successfully organized the internal round of the Smart India Hackathon (SIH) 2024. This event aimed to identify innovative problem-solving teams from across various departments to represent the university at the national level. The competition kicked off at 2:30 PM with a brief introduction by the organizing committee, highlighting the significance of innovation and technology in addressing real-world challenges. A panel of esteemed judges and mentors, each with expertise in their respective fields, were also introduced. Teams from diverse technical backgrounds were presented with problem statements from industry partners and government agencies. These challenges aligned with the overarching theme of the Smart India Hackathon, focusing on practical solutions. The SIH 2024 Internal Round was expertly coordinated by Assistant Professor Ms. Mansi Mehta, the SIH SPOC, and Assistant Dean, R&D Prof. Shaswat Padalia, representing the ICSII team.



"Adaptability: The Key to Success"

On July 29, 2024, Ms. Shreya Saumya Vasavada, a Lecturer at IIMS, Indus University, delivered an inspiring talk on "Adaptability as a Crucial Factor for Success" during the M.Tech Orientation-2024 at the Department of Computer Science and Engineering, Institute of Technology, Nirma University. Her insightful words resonated with the incoming M.Tech students, motivating them to embrace adaptability as they embark on their academic journey.



"A Divine Celebration: Gokulashtami at IIMS"



On August 7, 2024, IIMS organized a vibrant Gokulashtami celebration under the guidance of Dr. Parul Shah. The festivities began with a soulful Krishna Aarti, creating a serene and celebratory atmosphere. The event aimed to foster cultural engagement and bring joy to participants, successfully capturing the essence of Lord Krishna's life.

"IIMS Students Gain Insights into Industrial Sickness and IBC"

On September 6, 2024, IIMS, Indus University, hosted a full-day certificate program on "Industrial Sickness & the Insolvency and Bankruptcy Code, 2016." Led by the esteemed Dr. Rajesh Ojha, Associate Professor (Finance), the program attracted over 100 management students. Participants delved into the complexities of industrial sickness, factors affecting unit health, CIRP, corporate liquidation, and the role of registered valuers. Case studies highlighting the downfall of prominent Indian billionaires added a practical dimension to the learning experience.



"Enhancing Research Impact: IIMS Faculty Develops Review Skills"



On August 31, 2024, IIMS hosted a faculty development program on "Systematic Literature Review for Research Impact," led by Dr. Sunaina Lashkari Makwana and Dr. Nirali Dave. The program aimed to equip faculty members with the tools to conduct effective literature reviews, bolstering their research output and contributions to the academic community.

"Igniting the Web: React JS Workshop at Indus University"

On August 31, 2024, Mr. Hiren Mer and Ms. Madhvi Bera, Assistant Professors in the CSE Department at Indus University, successfully organized a workshop titled "React JS: Launchpad to Web Development." The event began with an inspiring welcome address by Dr. Ishbir Singh, Director of IITE, who encouraged students to embrace cutting-edge technologies and pursue their passion for web development. A total of 45 students enthusiastically participated, setting the stage for a deep dive into the world of React JS and its powerful role in modern web applications.



"Innovation in IoT Security: Mr. Hiren V. Mer Shines at ICCUBEA 2024"



Mr. Hiren V. Mer, Assistant Professor in the CSE Department at Indus University, recently presented his paper titled "Adaptive Security in a Connected World: A Review of Machine Learning for IoT Intrusion Detection" at the prestigious 8th International Conference on Computing, Communication, Control, and Automation (ICCUBEA-2024). The conference took place from August 23-24, 2024, at PCCOE, Pune.

"Empowering Future Tech Leaders: Expert Talk on Network Agility"

On August 10, 2024, Ms. Jaiswal Shruti and Ms. Toral Desai, Assistant Professors in the CSE Department at Indus University, led an insightful expert session titled "Unlocking Network Agility with Software-Defined Networking." The event kicked off with an inspiring welcome address by Dr. Zalak Trivedi, Head of the CSE Department, encouraging students to explore and engage with emerging trends in network technologies. The talk saw active participation from 35 enthusiastic students, sparking keen interest in the innovative world of SDN.



"Data Revolution: A Deep Dive into MongoDB"

On October 8, 2024, Ms. Babita Patel and Ms. Urvi Rabara, Assistant Professors in the CSE Department at IITE, Indus University, led an expert talk on "Data Revolution: MongoDB in Action." The event drew a crowd of 120 eager students and featured insights from a seasoned industry professional. Participants gained hands-on experience with advanced database management techniques through real-world examples.



"Indus University Placement Update"

Here's a breakdown of the latest placement news and activities at Indus University:

1. Placements Update

2023-24 Batch: A successful placement season for the graduating batch with 156 students from various programs securing positions in virtual/hybrid mode campus drives. Packages ranged from Rs. 3.60 LPA to Rs. 7.00 LPA.

2024-25 Batch: A promising start with 32 students already placed in just two campus drives, all receiving offers exceeding Rs. 5.00 LPA. Results of additional drives are awaited.

2. Other Updates

A) Azure Knowledge Team Visit (Aug 28, 2024): Representatives from Azure Knowledge explored potential campus recruitment opportunities.

B) Pre-Placement Talk - Medkart Pharmacy (Aug 29, 2024): An informative session for students interested in careers at Medkart Pharmacy.

C & D) Medkart Pharmacy Campus Drive (Aug 31 & Sep 5, 2024): A successful multi-phase drive resulted in the selection of several students.

E) Q-Spiders Campus Drive (Sep 12, 2024): A late-night drive led to the selection of 30 students from B. Tech, MCA, and MSc.IT programs.

F) Symmetric Campus Drive (Sep 13, 2024): A drive led by an Indus University alumnus resulted in the shortlisting of 8 students.

G) Roma Intelligence Campus Drive (Sep 14, 2024): A team from Roma Intelligence conducted tests, assessments, and interviews. Results are awaited for 24 shortlisted students.

H) IDP Education - International Education Fair (Sep 15, 2024): Indus University participated in a fair showcasing international study opportunities.

I) IIPR Orientation (Sep 17, 2024): A session for B. Pharm students introducing them to the Institute-Industry Partnership Cell (IIPR).

J) TCS SYNERG Session (Sep 25, 2024): Representatives from Indus University attended a session at TCS, learning about career opportunities and packages.

Looking ahead, Indus University's placement team is actively engaging with companies to secure further placement opportunities for students.



"Research Paper Publication"

Name of Institute - IITE, Computer Science & Engineering

Details of Event - Research Paper Publication on Predictive Maintenance for Industrial Equipment

Date of Event - 7th July 2024

Faculty Name - Ms. Babita Patel, Assistant Professor, CSE Department

Journal - International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE).

Paper Description - The integration of predictive maintenance systems in industrial settings is essential to mitigate unplanned downtime and optimise operational efficiency. This report presents a predictive maintenance web application designed to analyse sensor data from industrial machinery and forecast potential equipment failures. Utilising machine learning techniques, specifically Logistic Regression and Random Forest Classifier models, the application predicts failures based on parameters like temperature, torque, and rotational speed. Built using the Flask framework, it offers data visualisation, model training, evaluation, and prediction functionalities. Data preprocessing ensures quality, and visualisation tools aid in identifying patterns and anomalies. Key objectives include understanding predictive maintenance principles, implementing machine learning models, developing a user-friendly interface for real-time insights, and evaluating model performance. The Random Forest Classifier achieved an accuracy of 98.20%, demonstrating the system's robustness and scalability for enhancing proactive maintenance strategies.



Astro Corner

Tracing the Night Sky: Star Trails

Star trails are stunning visual representations of the Earth's rotation captured through long exposure photography. By pointing a camera at the night sky and leaving the shutter open for an extended period, the stars appear to streak across the image, creating beautiful circular or curved patterns. This effect is caused by the Earth spinning on its axis, making the stars seem to move in arcs around the celestial poles. Star trails not only showcase the passage of time but also reveal the mesmerizing motion of our planet, offering a unique glimpse into the dynamic nature of the cosmos.

To capture star trails, a DSLR camera with manual settings or a smartphone with a long-exposure app is required. A wide-angle lens with a large aperture (like f/2.8) helps to capture more of the sky. Set your camera on a sturdy tripod to keep it stable. Find a dark location away from city lights to reduce light pollution. Use a low ISO to minimize noise and set a long exposure time, from a few minutes to several hours, to capture the movement of the stars. On a smartphone, use an app that allows for long exposures and try multiple shots to stack later for a stunning star trail effect.



Image:-1 This image is captured by the Astro club coordinator - Dhruv Patel, at Polo Forest under a Bortle 2 sky, the Sony A7III and a 30-second exposure at ISO 1600 beautifully traced the circular paths of stars around Polaris. With the forest's minimal light pollution, the camera perfectly highlighted the celestial dance in the dark, clear skies.

Image:-2 This image is captured by the Astro club coordinator - Dhruv Patel, At Gir Forest, under a Bortle 3 sky, the Canon 1200D captured star trails with a 25-second exposure at ISO 3200. These trails are in the SE direction resulting in these types of tails.



By: Dhruv Patel, Astro Club Student Coordinator & B.Tech.-CSE
 Dr. Manisha Vithalpura, Mentor, Department of Physics &
 Astro Club, Faculty coordinator.

"20 Powerful Ways to Train Your Mind for Positivity and Happiness"

1. Acknowledge the Power of Your Thoughts:

Your thoughts are the foundation of your reality. By consciously choosing to focus on the positive, you begin to reshape how you experience the world, leading to a more fulfilling life.

2. Practice Positive Observation :

Make it a habit to actively seek out the good in everyday situations. Whether it's appreciating a beautiful sunset or finding a silver lining in a challenge, this practice trains your mind to naturally lean toward positivity.

3. Choose Positivity Daily :

Positivity is a deliberate choice. Each day, decide to focus on what's going right rather than what's going wrong. This conscious decision can transform how you handle life's ups and downs.

4. Your Thoughts Drive Your Happiness :

The quality of your thoughts directly impacts your level of happiness. By filling your mind with positive thoughts, you create a more joyful and content life.

5. Build Resilience Through Positive Thinking :

Focusing on the positive doesn't mean ignoring difficulties. Instead, it helps you build resilience, allowing you to bounce back more easily when faced with challenges.

6. Surround Yourself with Positivity :

Your environment influences your mindset. Surround yourself with positive people, uplifting content, and environments that reinforce your positive outlook.

7. Practice Gratitude :

Regularly acknowledge the good in your life, no matter how small. Gratitude shifts your focus from what you lack to what you have, enhancing your overall sense of well-being.

8. Reframe Challenges :

When you encounter a difficult situation, try to see it from a different perspective. Ask yourself what you can learn or how you can grow from the experience. This reframing turns obstacles into opportunities.

9. Be Kind to Yourself :

Positivity isn't just about how you view the world, but also how you treat yourself. Practice self-compassion and forgive yourself for mistakes, allowing you to maintain a positive self-image.

10. Celebrate the Small Wins :

Don't wait for major milestones to celebrate. Acknowledge and appreciate the small victories in your life. This habit builds momentum and keeps your spirits high.

11. Start Your Day with Positive Intentions :

Each morning, set a positive intention or affirmation for the day. This simple practice can set a tone of positivity that carries you through challenges.

12. Limit Exposure to Negativity :

Be mindful of the negative influences in your life, whether it's certain media, people, or environments. Reducing these influences helps keep your mindset positive.

13. Visualize Positive Outcomes :

Regularly visualize yourself achieving your goals and living the life you desire. This mental practice reinforces your belief in positive possibilities.

14. Embrace Patience and Acceptance :

Understand that positivity doesn't mean instant results. Embrace patience, knowing that good things take time, and maintain a positive attitude as you work toward your goals.

15. Engage in Joyful Activities :

Fill your life with activities that bring you joy and fulfillment. Whether it's a hobby, spending time in nature, or connecting with loved ones, these activities nourish your spirit.

16. Find Gratitude in Challenges :

Even in tough times, there's always something to be grateful for. Recognizing the growth or strength gained from challenges can shift your mindset to a more positive place.

17. Share Positivity with Others :

Positivity grows when shared. Encourage and uplift those around you. Acts of kindness and positive communication not only benefit others but also reinforce your own positive outlook.

18. Reflect and Realign :

Regularly take time to reflect on your thoughts and behaviors. If you notice negativity creeping in, consciously realign your mindset by focusing on positive aspects.

19. Approach Uncertainty with Optimism :

Life is full of uncertainties, but you can choose to approach the unknown with hope. Believing that good things are possible, even when the path is unclear, fosters a positive and open-minded attitude.

20. Keep a Positivity Journal :

Write down positive experiences, thoughts, and achievements. Over time, this journal becomes a powerful tool for reflecting on the good in your life, reinforcing your positive mindset. By incorporating these practices into your daily routine, you'll train your mind to see the good in everything, leading to a happier, more resilient, and fulfilled life.

-Article collated by Mr. Parimal Trivedi, IIICT



INTERVIEW -Captain Umang N. Jani, HoD-IIATE(Technical)

• **Where were you born and brought up? Can you share details about your education?**

I was born in Ahmedabad and completed my schooling from N M High School, Sabarmati. I did Diploma in Mechanical Engineering. I did my B. Tech in Aeronautical and M. Tech in Mechanical Engg. I am pursuing Ph.D.

• **The field of aeronautics has been your love and passion. When and how did you decide to become a pilot?**

When I was 8 years old, I had watched a filler on Doordarshan in which a child made a glider out of a kite. From childhood, I was fascinated and found that I was developing an inclination towards learning more about aircrafts and was always intrigued by its technicalities. As a child, I used to spend a lot of time in designing aircraft models and tried to fly them, for which I even used to get scolding from my father as sometimes I was not focusing on study. My dream was to become a pilot and study Aeronautical engineering.

I won National level competition for my B. Tech project - Delta which is on India's fastest (145 kmph) single engine radio control aircraft.

• **Who inspired you to make a career in aviation?**

My guru Shri Ashesh Bhavsar who was a NCC Airwing cadet-used to fly Rohini Glider and Pushpak aircraft. He is a chalk artist (awardee of "Limca Book of Records") helped me realize my dreams in aviation. He taught me technical things of aircraft when I was just 8.

• **From where did you do get your pilot training?**

I am lucky to have got my pilot training from one of the best FTO, Ahmedabad Aviation and Aeronautics Pvt. Ltd. (AAA). I got my commercial pilot license in 2009 from DGCA.

• **Please share your work experience.**

In 2007-8 I was used to teach trainee pilots in AAA. In 2010 I joined a GTU affiliated institute as an Assistant professor in Aeronautical engineering and worked there for 12 years. At that point of time I was associated with Aviation Dept. Indus Uni. as a BOS member. I joined Indus Uni. as an Assistant Professor in November 2022 and became HoD in 2023.

• **How has Aviation grown in Indus-WIIA?**

It has grown tremendously- a good spike. We started core professional courses relevant to the industry standards and are proud that we have helicopter Engg (B-1.3) Light Aircraft (Piston) (B-1.2), B. Tech Aeronautical, Aircraft Maintenance and Aerospace Engg. along with BBA in Aviation Management. We have Boeing 737, Sukhoi, Learjet and much more as the best infrastructure in India. We aim to deliver the best to our students, industry and ultimately nation. I am sure that our students will strengthen aviation and military industries of our country in future.

• **What are your hobbies?**

Horse Riding, Paragliding, Painting, Singing etc.

I have learnt horse-riding from "Gujarat Police Ashwa Talim Kendra" Shahibaug and paragliding from Saputara. I have won state level painting competitions too. I have been continuously five times national champion in National Level Aeromodelling competition between 2004 to 2009.

• **How has your family been your motivation?**

My family is a deep source of inspiration for me. My interest in Gujarati theatre grew because my grandfather Shri Durgesh Jani was a freedom fighter and used to perform drama for awareness about freedom. He worked for drama and was also associated for more than 40 years with Darpan Academy established by Smt. Mrinalini Vikram Sarabhai. My father Shri. Nayan Jani is Upandya Visharad in Bharatiya Shastriya Sangit and a world record holder for participating in Tana Riri Program as a flute player. I came in touch with Gujarati film and theaters in 2016 by Director and Producer- Late Shri. Nimesh Desai. I have been a stage performer and have particular interest in expressing Shaurya Ras. I learned family values from my grandma Late. Smt. Kanchan ben (a school teacher) and mother Late. Smt. Sharmishtha ben (a business woman).

• **What has been your biggest achievement in life?**

One of my close family member was in a medical emergency. I could do my best to provide best medical support by coordinating with doctors across different states, with the support of major administrative offices across states the surgery was made possible and successful and first time in state.

• **What is your message for our readers?**

Choose your career according to need of our country. Everyone, especially teens and youngsters must become physically and mentally tough to withstand in any worst situation because life lessons are not taught in syllabus. Give importance to family values, give utmost importance to unity in family. Work continuously so as to impact society positively. 'Service before self' should be our motto.



Interview was conducted by: Ms.Mansi Mehta and Dr. Daisy Kurien

“



Team i360 expresses gratitude to Ms. Parita Shah, a team member of i360 who designed all the previous editions of our newsletter. We wish her all the best for a bright future.

”

“



The team also acknowledges the special contribution of Parekh Vansh (IMCA, Semester - 7) who designed the current edition - Volume 17 newsletter. His designing skills and dedication towards work is par excellence.

”



i360 NEWSLETTER 2024 Volume 17 - September
Page - 26

शुभ दीपावली

From
i360 Team

