



i360 NEWSLETTER
2024
Volume 12 - April

In Spotlight

A Humble Engineer & Academician

Prof. Dr. Sujoy Chaudhury

Dean Research & Development and Professor in
IITE, Metallurgy Department
Indus University



Building Minds to Build Buildings

As part of Technical Module 2, 25 students from semester 2, accompanied by faculty members Assistant Professors Naitik Vakharia and Rakshith Chattrala from the IIDEA department at Indus University, undertook a site visit for industrial exposure on Wednesday, April 20, 2024, from 2:00 to 5:00 PM. During the visit, students gained insights into Pre Engineered Buildings (PEB), which are structures assembled using pre-designed components manufactured off-site. They explored a project by Kataria Automobiles, a new workshop near DPS School, Bopal, constructed by V.R. Construction, Ahmedabad. The onsite visit was facilitated by site engineer Mr. Paresh and project management consultant Mr. Jivan Jain. The experience provided valuable lessons in understanding structural systems, efficient space utilization, material properties, construction techniques and processes, environmental considerations, as well as cost and time efficiency. Students also expressed keen interest in learning about the roles and responsibilities of various agencies involved in designing and constructing industrial projects.



Timber Treasures: Exploring Wood's Wonders in Architecture

As part of the Technical Module 2 curriculum, 25 students from Semester 2, accompanied by Assistant Professors Naitik Vakharia and Rakshith Chattrala from the IIDEA department at Indus University, embarked on an industrial visit to Shree Hareshwar Saw Mill situated in Lathi Bazar, Ahmedabad. The main aim of this visit was to provide students with hands-on experience regarding the utilization of wood in design and construction within the building industry. Architect Nimish Patel, the proprietor of Shree Hareshwar Saw Mill, delivered an extensive presentation on the various types of wood and their inherent properties. As a token of appreciation, he presented each student and faculty member with a commemorative water bottle and diary during the visit. The visit offered students valuable insights into the distinctions between softwood and hardwood, wood properties, strength, durability, dimensional stability, workability, wood processing, sustainability, and environmental considerations. Furthermore, students gained an understanding of the architectural applications of wood, including its structural use, interior design, and exterior design. This industrial excursion to a sawmill provided students with fundamental knowledge regarding wood as a building material in architecture and its multifaceted applications, enriching their academic and professional endeavors.



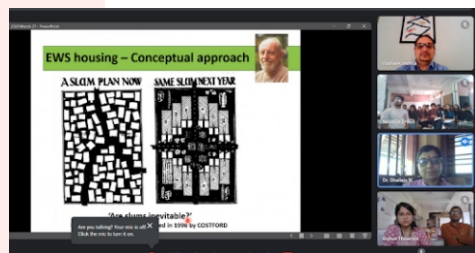
Urban Insights: Sketching the Cityscape at NID Campus

"In March 21, 2024, as part of the Urban Insert Studio program, a group of 27 eighth-semester students embarked on a field trip to the NID campus in Ahmedabad. The primary objective of this excursion was to engage in sketching, analysis, and detailed observation, aimed at gathering essential data for their site drawings and subsequent site model development within the studio curriculum. Alongside their core activities, the students had the valuable opportunity to explore neighboring architectural landmarks such as Sanskar Kendra and Tagore Hall, enriching their contextual understanding. This educational endeavor was spearheaded by Associate Professor Atreya Bhattacharyya, with on-site support provided by Assistant Professors Shraddha Sharma and Priyanka S."



Building Tomorrow: Inspiring Insights from COSTFORD's Sustainable Housing Lecture

Assistant Professor Priyanka S. participated in a comprehensive 5-day Construction LCA Boot Camp hosted by One Click LCA in spring 2024. Each session, spanning 2 hours daily, provided extensive insights into critical aspects of building sustainability and life cycle assessment (LCA). Topics covered included the various stages of a building's life cycle, environmental impact assessment, and databases essential for conducting LCAs. The boot camp format included engaging self-study modules, interactive Q&A sessions, and a final exam to ensure proficiency. Priyanka successfully completed the course requirements and was awarded the course completion certificate on April 12th, 2024.



Sustainable Structures Unveiled: Asst. Prof. Priyanka S. Masters Construction LCA at Boot Camp

Assistant Professor Priyanka S. participated in a comprehensive 5-day Construction LCA Boot Camp hosted by One Click LCA in spring 2024. Each session, spanning 2 hours daily, provided extensive insights into critical aspects of building sustainability and life cycle assessment (LCA). Topics covered included the various stages of a building's life cycle, environmental impact assessment, and databases essential for conducting LCAs. The boot camp format included engaging self-study modules, interactive Q&A sessions, and a final exam to ensure proficiency. Priyanka successfully completed the course requirements and was awarded the course completion certificate on April 12th, 2024.



Architectural Epiphanies: Unveiling Student Research Gems at International Conference

"Five architecture students showcased their research prowess on an international platform during the International Students Conference, Research in Architecture. These papers, stemming from fieldwork conducted during their thesis semester from January to June 2023 under the mentorship of Dr. Naresh Chhatwani, offer insightful explorations into various architectural realms.

Gedia Raj, under the guidance of Dr. Naresh Chhatwani, delved into 'House Form and Settlement Pattern,' focusing on the Patel community in Amreli, Gujarat.

Patel Hetavi's paper, also supervised by Dr. Naresh Chhatwani, scrutinized 'Laurie Baker in Gujarat,' examining Baker's architectural contributions in regional settings.

Panesara Hemin, mentored by Dr. Naresh Chhatwani, explored 'Colonial Architecture of Jaora,' shedding light on the historical architectural landscape.

Sharma Savan's research, overseen by Dr. Naresh Chhatwani, investigated the 'Extended Building Skin' through a study of office buildings in Ahmedabad.

Vimarsh Shah, guided by Dr. Naresh Chhatwani, conducted a thorough examination of the 'Core of an Institution: Architecture of Anant Raje,' providing valuable insights into institutional architectural design.

These publications were part of the International Students Conference, Research in Architecture, edited by Professor Nilesh Pore and published by Allied Publishers Pvt. Ltd. with ISBN: 978-93-89934-68-7."

28. Kinetic Architecture: An Exploration and Experimentation of Design <i>Alman Shah, Prof. Yogita Negpure and Prof. Taruna Joshi</i>	236
29. Laurie Baker in Gujarat: A Study of Works and Regional Setting <i>Heta Patel and Dr. Naresh Chhatwani</i>	242
30. Disruptor: Case of Placemakers of Revenue Community in Assam <i>Komal Purohit and Dr. Parag Revani</i>	249
31. Natural Light Enhancing the Quality of Space in Modern Churches <i>Shivani Arshwan, Jayprakash, Dr. Vijaya Srinivasan and Dr. Rohini Joshi</i>	255
32. Examining Contemporary Issues in Architectural Identity in Heritage Products: Case of Chhatra Ghos, Jodhpur <i>Abhinav Kothari and Dr. Sudhir Deshpande</i>	269
33. Study of Spatial Semantics in Indian Context: Case of Sangri, Leela Bhanoli <i>Anushka Anand Kulkarni and Dr. Shweta Ranesh Dhanraj</i>	275
34. A Study of the 'Core of an Institution': Architecture of Anant Raje <i>Purnesh Shah and Dr. Naresh Chhatwani</i>	293
Contents xxix	
35. वाचानं नरं वाचयानं: Re-Imagining the Dying Culture of Reading and Public Libraries <i>Tejaswini Srivastava and Dr. Harshada Pande</i>	300
36. Traditification in Modern Residential Architecture of Emerging Indian Cities <i>Priyanka Mishra and Dr. Sudhir Deshpande</i>	306
37. Workplace Fabric: Design of IT Offices in Regards to the Intervention Spectrum <i>Gadkate Tanya Rohini and Dr. Anshu Choudhary</i>	317
38. Enabled Community Gardens for Senior Citizens of St. Patrick's Town, Haldopur, Pune <i>Shruti Rajwade Anand and Dr. Ranpreet Kaur</i>	334
39. Colonial Architecture of Jaora <i>Hemin Panesara and Dr. Naresh Chhatwani</i>	347
40. Extended Building Edge <i>Savan Sharma and Dr. Naresh Chhatwani</i>	355
41. House Form and Settlement Pattern: Study of Patel Community in Amreli, Gujarat <i>Raj Gedia and Dr. Naresh Chhatwani</i>	360
42. Interactive Streets: Connecting People to Livable Streets: A Case of Walker Street, Nagpur <i>Abhinav Kothari and Dr. Abhinav Gaudil</i>	365

Colors of Unity: Indus Family's Joyous Holi Extravaganza

The Women Development Cell orchestrated a lively Holi celebration on March 22nd, 2024, with the aim of fostering cultural unity, environmental mindfulness, and community cohesion within the Indus community. Faculty and staff enthusiastically participated in the traditional practice of using natural colors, creating an atmosphere of camaraderie and inclusiveness. The vivid colors adorned the garden space, mirroring the exuberance of the Holi spirit. After the colorful festivities, everyone convened for a potluck feast, where members shared homemade delicacies, fostering culinary exchange and strengthening communal ties. Through vibrant festivities, music, dance, and shared culinary delights, the event nurtured a sense of togetherness and belonging within the Indus community, leaving behind cherished memories of a joyous Holi celebration.



Design Odyssey: Unveiling Bhuj's Cultural Canvas

The recent excursion to Bhuj was an eye-opening journey for the Interior Design students of Semester VI, an integral part of their Design Studio curriculum. Delving into Bhuj's rich cultural and architectural landscape, students were immersed in the intricacies of traditional craftsmanship and spatial dynamics. Stepping beyond the classroom confines, students embarked on an enthralling voyage to Bhuj, a city steeped in historical significance and pulsating with artistic energy. Throughout the trip, they were engulfed in a myriad of experiences, unraveling the interwoven threads of architecture, craftsmanship, and cultural heritage. This immersive exploration not only broadened students' horizons but also nurtured a deeper understanding of cross-cultural nuances, igniting fresh waves of creativity. Undoubtedly, it was a transformative journey that left an enduring imprint on their comprehension of design essentials and cultural legacy. The excursion was held during March 29 to April 1, 2024 and coordinated by Assistant Professor Aakashi Patel & Arya Nair.



Crafting Culture: Fashion Voyage from Kolkata to Shantiniketan

The Fashion Design Department of Indus Design School recently embarked on an enriching journey to Kolkata and Bolpur-Shantiniketan from March 13th to March 22nd, 2024, as part of the annual Related Study Programme. Led by faculty coordinators Soumita Ganguly and Monika Parmar, students from Semesters 4, 6, and 8 delved into the vibrant tapestry of India's traditional crafts and culture. While exploring Kolkata, they delved into the bustling culture of metropolitan Bengal, while in Bolpur-Shantiniketan, they immersed themselves in the rural region's preservation of traditional heritage through arts and crafts. The highlight of the trip was a hands-on workshop from March 17th to 20th, where students actively collaborated with skilled artisans, creating stunning pieces like batik-printed scarves, handkerchiefs, leather wallets, and coin purses. This immersive experience not only honed their practical skills but also ignited creativity and facilitated cultural exchange, leaving a lasting impact on their understanding and appreciation of India's cultural richness.



"Mastering Success: IIHSLS Delves into Goal Setting and Time Management"

IIHSLS recently hosted an expert talk on "Goal Setting and Time Management," led by Dean Dr. K.C Roy on April 22nd, 2024. Coordinated by the Department of Languages (English), the session garnered enthusiastic participation from students across various departments. With a focus on essential skills for academic and personal success, the talk emphasized setting clear and attainable goals, prioritizing tasks, and effective time allocation. Strategies such as breaking down goals into manageable tasks and employing diverse time management techniques were explored, aiming to enhance productivity and efficiency. This report offers a concise summary of the session's key insights, highlighting the significance of incorporating these skills into students' daily routines to optimize performance and achieve success.



Fueling Innovation: Unveiling Nature's Biodiesel Secret with *Capsella bursa-pastoris*



Dr. Rawesh Kumar, an Associate Professor in the Chemistry Department, has recently contributed to scientific literature with a research article titled "Seed oil of *Capsella bursa-pastoris* (L.) Medik: A Non-edible Promising Feedstock for Biodiesel Synthesis," published in the esteemed SCI-indexed international journal "Biofuels" by Taylor & Francis, boasting an impressive Impact Factor of 2.5.

Catalyzing Change: Dr. Rawesh Kumar's Paper Reigns as Most Cited in Energy Research

Dr. Rawesh Kumar, an Associate Professor in the Chemistry Department, has received recognition from WILEY for one of his research papers, acknowledged as the most cited paper during the 2022-2023 session. Titled "Role of Ca, Cr, Ga and Gd Promotor over Lanthana-Zirconia Supported Ni Catalyst towards H₂-rich Syngas Production through Dry Reforming of Methane," the paper was published in Energy, Science and Engineering, a WILEY journal.



"Stargazing Revolution: iSAC Unveils Celestron Telescope for Cosmic Exploration"

Under the guidance and assistance of Dr. Ram Sharma from IISS, Indus University, the Astro club (iSAC) and the Department of Physics at IISHLS have acquired a Celestron Telescope. This acquisition is poised to greatly enrich learning across various academic disciplines and foster broader community engagement. By granting direct access to the wonders of the night sky, the telescope promises to enhance classroom experiences, promote scientific literacy, and ignite a sense of wonder among students and the public alike. To ensure the telescope's functionality, a testing session was organized on April 22nd, 2024, on the terrace of the Bhanwar building. Dr. Ram Sharma from IISS and faculty member Mr. Rajabhishek from IISS were present for this event. During the testing, Astro club coordinators captured captivating images of the Moon and Orion Nebula using the Celestron Telescope, highlighting its impressive auto-tracking and high-resolution capabilities, which added an exciting dimension to the experience.



Unveiling the Digital Frontier: Dr. Chintan Bhatt's Exploration of Contemporary Literature"



Assistant Professor Dr. Chintan Bhatt, from the Language Department (English) at IISHLS, recently authored a research paper titled "The Emergence of Digital Humanities in Contemporary Literature," which was published in the journal of LangLit, An International Peer Reviewed Open Access Journal, on April 14, 2024.

"Unlocking Minds: Nityanand Swarupa Das Expert Talk on the Art of Mind Control"

Dr. Dipti Patel, Associate Professor at IIPR, orchestrated a thought-provoking expert talk titled "Mastering the Art of Mind Control" on March 27th, 2024, at the Seminar Hall of Indus University, tailored for B. Pharm. students. Renowned Geeta Teacher Nityanand Swarupa Dasa from Hare Krishna Temple in Ahmedabad delivered the session, delving into foundational principles of mind control and offering insights into techniques for managing our thoughts. Dasa also explored the psychology behind persuasion, providing ethical guidelines for its application across diverse contexts. With the guidance of Dr. Falguni Tandel, Principal of IIPR, and steadfast support from Indus University Management, a total of 65 students benefited from this enlightening lecture.



Elevating Standards: Dr. Dipti Patel's Expert Discourse on Quality in Pharma

Dr. Dipti Patel, Associate Professor at IIPR, orchestrated a compelling expert talk on the Quality Perspective in the Pharmaceutical Industry on April 3rd, 2024, from 3:30 to 4:30 pm at LH15 Bhanwar Building, tailored for pharmacy students. Dr. Keur Ahir, Assistant Manager at Amneal India Pharmaceutical Ltd. in Ahmedabad, delivered the session. It covered a range of pivotal topics, including regulatory requirements, quality management systems, Good Manufacturing Practices (GMP), quality control techniques, and emerging trends in quality assurance. Through this enlightening discourse, students gleaned insights into the implementation of these principles within pharmaceutical companies, striving for the highest standards of quality to enhance healthcare outcomes globally.



Breaking Boundaries: Dr. Falguni Tandel's Research Innovation in Pharmaceutical Analysis

Principal Dr. Falguni Tandel of IIPR has recently authored a research paper titled "RP-HPLC Method Development and Validation for the Estimation of Mutual Prodrug of Propyphenazone and Flurbiprofen," published in Volume 13(3) of the International Journal of Biology, Pharmacy, and Allied Sciences. The paper, released on March 1st, 2024, spans pages 1267 to 1279.



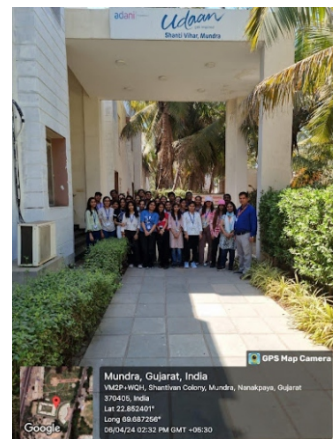
"Innovative Insights: Dr. Falguni Tandel's Contributions to Quality by Design"

Dr. Falguni Tandel has contributed two book chapters, titled "Analytical Quality by Design" and "API Quality by Design," to the book "Introduction to Quality by Design (QbD) From Theory to Practice." This publication, by the esteemed international publisher Springer Nature in Singapore, was released on April 10th, 2024.



"Flight to Innovation: Project Udaan Soars to Mundra with Indus Institute of Pharmacy"

Mr. Shekhar Jha and Dr. Dhiren R. Patel were acknowledged and celebrated for their research endeavors at the 9th Ankara International Congress on Scientific Research, held from December 26th to 29th, 2023, in Ankara, Turkey. Their oral and technical presentation on "Low-Cost Energy Harvester Using Fluttering Wind Belt" earned them recognition and appreciation during the event. Similarly, Mr. Deep Ghosh, Mr. Poojan Patel, and Dr. Dhiren R. Patel were also recognized and appreciated for their research contributions at the same congress. Their oral and technical presentation on "Design and Development of Glueing Machine for Lost Foam Casting" garnered acknowledgement, highlighting their significant contributions to the field.



"Pharma Explorers: Indus Institute Ventures into Biomatrix Healthcare"



Indus Institute of Pharmacy and Research, Indus University, recently organized an Industrial Visit to Biomatrix Healthcare Pvt. Ltd. in Rajoda, Bavla, Ahmedabad. Forty-eight B. Pharm students from Indus Institute of Pharmacy and Research (IIPR) participated in the visit, accompanied by faculty members Ms. Shivknya C. Phutke and Mr. Sumeet Sarvaiya on March 30th, 2024. The visit served to complement their academic learning and provided valuable insights into the pharmaceutical industry. Interactive sessions and practical demonstrations facilitated meaningful learning experiences, inspiring students to explore career opportunities in pharmaceutical research, production, and quality assurance.

"Revolutionizing Cleanliness: AIP Conf. Proc. Unveils Innovative Scrap Collection Machine"

Sandip Pandya, Kamlesh Sonkusare, Atik Shaikh, and Dr. Dhiren Patel collaborated on a research paper titled "Design & Development of Cleaning and Scrap Collecting Machine for Small Organization," which was published in AIP Conference Proceedings 2901, with the identifier 100017 (2023) on Scopus. The paper can be accessed via the following DOI link: <https://doi.org/10.1063/5.0179130>.



"Innovation Champions: Dhiren R. Patel and his Students Shine at Ankara Congress"

Mr. Shekhar Jha and Dr. Dhiren R. Patel were acknowledged and celebrated for their research endeavors at the 9th Ankara International Congress on Scientific Research, held from December 26th to 29th, 2023, in Ankara, Turkey. Their oral and technical presentation on "Low-Cost Energy Harvester Using Fluttering Wind Belt" earned them recognition and appreciation during the event. Similarly, Mr. Deep Ghosh, Mr. Poojan Patel, and Dr. Dhiren R. Patel were also recognized and appreciated for their research contributions at the same congress. Their oral and technical presentation on "Design and Development of Glueing Machine for Lost Foam Casting" garnered acknowledgement, highlighting their significant contributions to the field.



"Casting Tomorrow: Exploring Additive Manufacturing in Investment Casting"



Margi Shah, Parth Monapara, Yogendra Chitroda, Denish Karetiya, and Dr. Dhiren Patel collaborated on a research paper titled "Investment Casting Using Additive Manufacturing: State-of-the-Art and Future Directions - A Review Paper," which was published in IEEE with page numbers 889-895 in 2023, as indexed in Scopus. The paper can be accessed via the following DOI link: [10.1109/R10-HTC57504.2023.10461787](https://doi.org/10.1109/R10-HTC57504.2023.10461787).

"Sweeping Innovation: AIP Conf. Proc. Unveils Budget-Friendly Floor Cleaning Machine"

Vatsal Malaviya, Devang Panchal, Dhruvad Panchal, and Dr. Dhiren Patel collaborated on a research paper titled "Design and Fabrication of Low-Cost Floor Cleaning Machine for Commercial Application," which was published in AIP Conference Proceedings 2927 with the identifier 020023 in 2024, as indexed in Scopus. The paper can be accessed via the following DOI link: <https://doi.org/10.1063/5.0192429>.



Guarding Assets: Expert Insights with Alumnus Devarshi Adhyaru"



The Indus Automobile Engineering Association (IAEA) has organized an Expert Talk and Alumni Interaction session on Asset Protection, featuring Mr. Devarshi Adhyaru, an Asset Protection Specialist at Loblaw Companies Limited in Canada. Scheduled for April 11th, 2024, Thursday, from 3:00 PM to 4:00 PM, this event provides a valuable opportunity for students of the Automobile Engineering Department to engage with Mr. Adhyaru, who is an active alum of the Automobile Engineering program at IITE. The session will be held in Automobile Lab 1.

"Exploring Innovation: iCreate Journey with Indus University"

An educational excursion was arranged to the International Centre for Entrepreneurship and Technology (iCreate) in Devdholera, Ahmedabad, where first-year PG students from MCA, IMCA, MSc-IT, and IMSc (CA & IT), along with B.Tech students specializing in Auto, Mechanical, and Civil Engineering from IITE, participated. With over 65 students in attendance, the visit provided valuable insights into the startup culture prevalent in various technical domains, courtesy of industry experts. The day commenced with an enlightening introductory lecture on Gujarat's startup ecosystem delivered by Dr. Raish, Ms. Gadies Nair, and Mr. Patel.

Dignitaries at iCreate elaborated on their support system for budding entrepreneurs, emphasizing the importance of thorough research in their chosen domains. Ms. Gladies led engaging activities, both on and off the stage, enhancing students' learning experiences. Guided tours of iCreate's campus showcased cutting-edge laboratories, IT facilities, libraries, studios, and startup spaces, allowing students to witness hands-on work in progress. Faculty members from Indus University, including Dr. Akshara Dave and Ms. Vaishali Patel from IICT, Mr. Jinesh Kamdar from the Automobile Engineering Department, and Mr. Ruchit Soni from the Electrical Engineering Department at IITE, coordinated the visit seamlessly. At the conclusion, faculty feedback was gathered, and iCreate presented mementos to the visiting faculty members from Indus University.



"Tech Talk Spectra: Unveiling Tomorrow's Innovations"

Dr. Sweta Shah orchestrated a talk series titled "Recent Trends and Emerging Technologies" in collaboration with Vigyan Gurjari on March 30th, 2024. The series featured a lineup of esteemed speakers who shared their expertise in various cutting-edge fields. Mr. Raj Shah, Enterprise Business Manager at AWS India, delved into the intricacies of "Cloud and how it works." Following this, Mr. Aatish Motipara, Managing Director of Cactus Future Tech LLP, shed light on the "Technology & Application of AR and VR." Next, Mr. Mohit Aggarwal, General Manager at Sadbhav Engineering Limited, provided insights into "IT Infrastructure and Cyber Security." Lastly, Mr. Jay Mehta, Head of Partnership and Alliance at Floatbot Inc, explored the "Future & Applications of AI."



"Power Grid Resilience: Navigating Renewable Integration Challenges"



On March 21st, 2024, at 3:30 pm, Dr. Hinal Shah conducted a knowledge-sharing session titled "Protection Challenges and Mitigation Techniques of Power Grid Integrated to Renewable Energy Sources: A Review." The session provided valuable insights into the topic, which can be further explored through the following link: <https://doi.org/10.1080/15567036.2023.2203111>.

"Empowering Electrical Education: 3D Visionaries Recognized"

Dr. Vineeta Chauhan, Dr. Rashmi Sharma, and Dr. Hinal Shah were awarded certificates for their participation in a one-week National level Faculty Development Programme titled "Aiming towards 3D's in Electrical Engineering." The program was organized by the Department of Electrical and Electronics Engineering at Mahatma Gandhi Institute of Technology, Hyderabad, and took place from March 11th to 15th, 2024.

"Recognizing Excellence: Dr. Rashmi Sharma's Reviewing Achievement"

Dr. Rashmi Sharma, Assistant Professor in Electrical Engineering, was awarded a certificate for her contributions as a reviewer in March 2024 for the Elsevier journal "Computers & Electrical Engineering."



"Reviewing Excellence: Dr. Vineeta Chauhan's ICETCP 2024 Achievement"

Dr. Vineeta Chauhan, Assistant Professor in Electrical Engineering, was honored with a certificate for her valuable contribution as a reviewer during the "2nd International Conference on Emerging Trends & Contemporary Practices- ICETCP 2024," hosted by Atmiya University, Rajkot.

"Exploring the Circuitry: PCB Planet Industrial Visit"

The Department of Electrical Engineering and Electronics and Communication Engineering arranged an engaging industrial visit to PCB Planet in Gandhinagar on March 12, 2024. Accompanied by Assistant Professors Ruchit Soni (Electrical Engineering) and Zalak Patel (Electronics and Communication Engineering), a group of 42 B.Tech students from various disciplines explored the intricate processes of semiconductor technology and PCB CAM fabrication. This hands-on experience provided valuable practical insights that enhanced their theoretical understanding. Here are some highlights from the visit.



"Harvesting Innovations: Sejal Thakkar's Conference Contributions"

Sejal Thakkar from the CE Department at IITE, Indus University, submitted papers for the 4th International Conference on Mathematical Modeling, Computational Intelligence Techniques, and Renewable Energy (MMCITRE2024), organized by Manipal University Jaipur in association with esteemed institutions such as the University of Barcelona, Spain; RACEF (Real Academia de Ciencias Económicas y Financieras) Society, Barcelona, Spain; UCSC, Chile; UPTC, Colombia; and Forum for Interdisciplinary Mathematics (FIM), Gujarat Chapter, India. The conference is scheduled to take place from May 29th to 31st, 2024. On April 15th, the following papers were accepted for presentation and publication:

- 1) "Automated Irrigation System" - accepted for oral presentation.
- 2) "Smart Farming" - accepted for oral presentation and publication in one of the following journals: JCISS/JISST/ CRC Taylor and Francis/ NOVA/ Riverside Publishers edited book.
- 3) "Deep Learning for Agriculture Land Detection" - accepted for oral presentation.
- 4) "Mobile SMS Spam Detection using Machine Learning Techniques" - accepted for oral presentation.
- 5) "A Comprehensive Review on Flower Recognition Techniques using the Kaggle Flowers Recognition Dataset" - accepted for oral presentation.

"Innovate to Elevate: Exploring the Innovation Ecosystem"

The Indus Institute of Management Studies (IIMS), under the leadership of Dr. Parul Shah, Dr. Charmi Shah, Dr. Dipesh Dasani, and Dr. Kanu Raheja, organized a 30-hour certificate program focused on the Innovation Ecosystem. The program aimed to educate 43 students on various aspects, including understanding innovative ecosystems and their components, identifying emerging trends and disruptive technologies, analyzing market dynamics and consumer behavior, developing innovative business models and strategies, and leveraging partnerships and collaborations for ecosystem growth. Through an evaluation-based approach, the program ensured that participants gained tangible skills and insights, preparing them to excel in today's dynamic business landscape.



"Decoding Data: Empowering Decision Making"

IIMS organized an expert session on Data Analytics and Decision Making, guided by Dr. Rajesh Ojha. Mr. Dhaval Popat, Assistant Vice President at EXL Analytics, Ahmedabad, initiated the session with a case study illustrating the significance of Data Analytics. He elaborated on the Data Analytics process and its future prospects. Over 140 management students actively participated in this informative and engaging session.



"Green HRM: Exploring Practices and Challenges"



Ms. Shreya Vasavada, Lecturer at IIMS, authored a research paper titled "A DESCRIPTIVE STUDY ON GREEN HRM PRACTICES- NEED AND CHALLENGES," which was published in the International Journal of Advance and Innovative Research, Volume 11, Issue 1(II): January - March 2024, on April 23, 2024.

"Stepping Towards Sustainability: Exploring Carbon Footprint Engagement"

Dr. Rachna Patel presented a paper Carbon Footprint- Requirement of Social and Public Engagement organised by Banasthali Vidyapith on 5th and 6th April 2024 on the subject title Viksit Bharat 2047: Achieving sustainable development through Innovation and Management.

"Bridging Disciplines: Unraveling AI/ML's Multifaceted Approach"

Dr. Rachna Patel took part in a week-long faculty development program titled "Interwoven Intelligence: A Multidisciplinary Approach using AI/ML." The program was jointly organized by the Commissionerate Technical Education, Gandhinagar, and the Gujarat Technical Education and Research Society (GTERS).

"Exploring ERP Excellence: The Odoo Odyssey"

The Department of Computer Science at the Indus Institute of Information Technology arranged an industrial excursion to Odoo India HQ, Gandhinagar, on April 4th, 2024, for all IMCA and IMSc (CA & IT) students. The visit offered insights into the objectives and significance of ERP systems, emphasizing Odoo's prowess in ERP management and the functionality of ERP applications. Students engaged in interactive sessions with employees, including alumni, and gained firsthand exposure to the company's operations. Accompanied by two faculty members, Mr. Parimal Trivedi and Ms. Nehal Adhvaryu, a total of 111 students participated. The initiative was meticulously coordinated by Dr. Akshara Dave and Dr. Mukta Agrawal, with the unwavering support of the IICT faculty members, including the HoD, Director, and the Training & Placement cell of Indus University.



"Brightening Lives: ACSIT's Social Mission"

On April 7, 2024, Team ACSIT, student association of Department of Computer Science, visited Vasna Road's various construction sites to distribute juice and chips for underprivileged kids as a part of social cause along with NGO Milke Baate Khushiyaan. We have initiated at least one social cause under ACSIT per year to encourage the students since last year. This is the third activity under this initiative. Below are the glimpses from the same.



Unveiling Nestle's On-Campus Parlor: A Partnership in Progress



On Saturday, April 13, 2024, Dr. Hardiksinh Rayjada from the Department of Computer Science (IIICT) led a Knowledge Sharing Session on "The Tactics for Data Centre Design."

"Bridge of Cultures: Gujarat-Arunachal Pradesh Youth Exchange Program"

Two students, Ms. Bhumi Champaneri and Mr. Vaibhav Mulchandani, representing the Department of Computer Science, IICT, actively took part in the YUVA SANGAM PHASE-IV youth exchange program. This initiative, facilitated by the Government of India under the banner of EK BHARAT SHRESHTHA BHARAT, fostered cultural exchange between Gujarat and Arunachal Pradesh. The program unfolded at Rajiv Gandhi University, Arunachal Pradesh, spanning from April 8th to 12th, 2024.



"Unlocking LinkedIn: Your Path to Personal and Professional Success"

Title: Maximizing LinkedIn for Personal and Professional Growth.

In today's fast-paced world, LinkedIn has become indispensable for personal and professional advancement. Here are some quick tips to leverage this platform effectively:

Optimize Your Profile: Ensure your profile is complete, professional, and engaging.

Expand Your Network: Connect with colleagues, industry peers, and thought leaders to broaden your reach.

Share Valuable Content: Position yourself as a thought leader by sharing insightful posts and updates.

Join Relevant Groups: Participate in groups to engage with like-minded professionals and stay updated on industry trends.

Utilize LinkedIn Features: Take advantage of job search, learning resources, and company insights.

Engage with Influencers: Follow and interact with influencers to expand your knowledge and network.

Cultivate Your Personal Brand: Define your unique value proposition and showcase it consistently.

With these strategies, you can harness the full potential of LinkedIn to achieve your personal and professional goals. Connect with Mr. Parimal Trivedi on LinkedIn to continue the conversation!

Mr. Parimal Trivedi
IICT, Indus University



Google's Gemini: A Twin Leap in Artificial Intelligence or a Buzzword Bonanza?

The tech world is abuzz with the launch of Google's latest AI marvel, Gemini. Touted as their "most capable" large language model (LLM) yet, Gemini promises to revolutionize how we interact with information, process data, and even approach creative endeavors. But is this a genuine breakthrough or just another industry buzzword? Let's dive into the core of Gemini, explore its potential, and ponder the ethical considerations it presents.

Unveiling the Powerhouse :-

Imagine a supercharged brain, custom-built with Google's cutting-edge AI chips and fueled by advanced neural networks. That's essentially what Gemini is. This versatile LLM can process and analyze information from diverse sources, including text, images, videos, and even audio. This multi-sensory understanding allows Gemini to grasp complex concepts, identify patterns, and generate responses with unparalleled nuance and accuracy.

Three Flavors, Tailored Impact:

Recognizing the diverse needs of users, Google offers Gemini in three distinct versions:

Nano: The lightweight companion, residing on your phone and offering intelligent assistance offline. Think of it as a superpowered Siri, ready to answer your questions even without an internet connection.

Pro: The workhorse powering Google's Bard chatbot. Pro promises more natural and engaging interactions, potentially revolutionizing customer service and information retrieval.

Ultra: The powerhouse, currently under wraps but rumored to surpass human performance in specific tasks. This version won't be available until next year, but its potential is already sending shivers of excitement (and perhaps trepidation) down the spines of AI enthusiasts.

Beyond the Hype: A World of Possibilities?

The potential applications of Gemini are mind-boggling. From personalized education experiences to groundbreaking scientific research, Gemini could fundamentally alter various industries. Imagine:

Doctors: Receiving real-time insights by analyzing medical images alongside patient records, leading to more informed diagnosis and treatment plans.

Marketers: Crafting hyper-personalized campaigns based on individual customer preferences, maximizing engagement and conversion rates.

Writers: Utilizing Gemini's creative capabilities to overcome writer's block, generate unique content ideas, or even co-write entire pieces.

The Call for Responsible Development: While the possibilities are exhilarating, ethical considerations cannot be ignored. Biases within datasets could lead to discriminatory outcomes, privacy concerns need careful addressing, and the potential for job displacement raises questions about societal impact. Responsible development and deployment are crucial to ensure that Gemini becomes a force for good, not a Pandora's box of unintended consequences.

A Stepping Stone or a Game Changer?

Only time will tell if Gemini lives up to its hype. But one thing's for sure: it's a significant step forward in AI development, pushing the boundaries of what's possible. As we watch Gemini evolve, let's keep the conversation open, ensuring that this technological leap benefits all, not just a select few. We must actively shape the future of AI, ensuring it aligns with ethical principles and serves humanity's best interests.

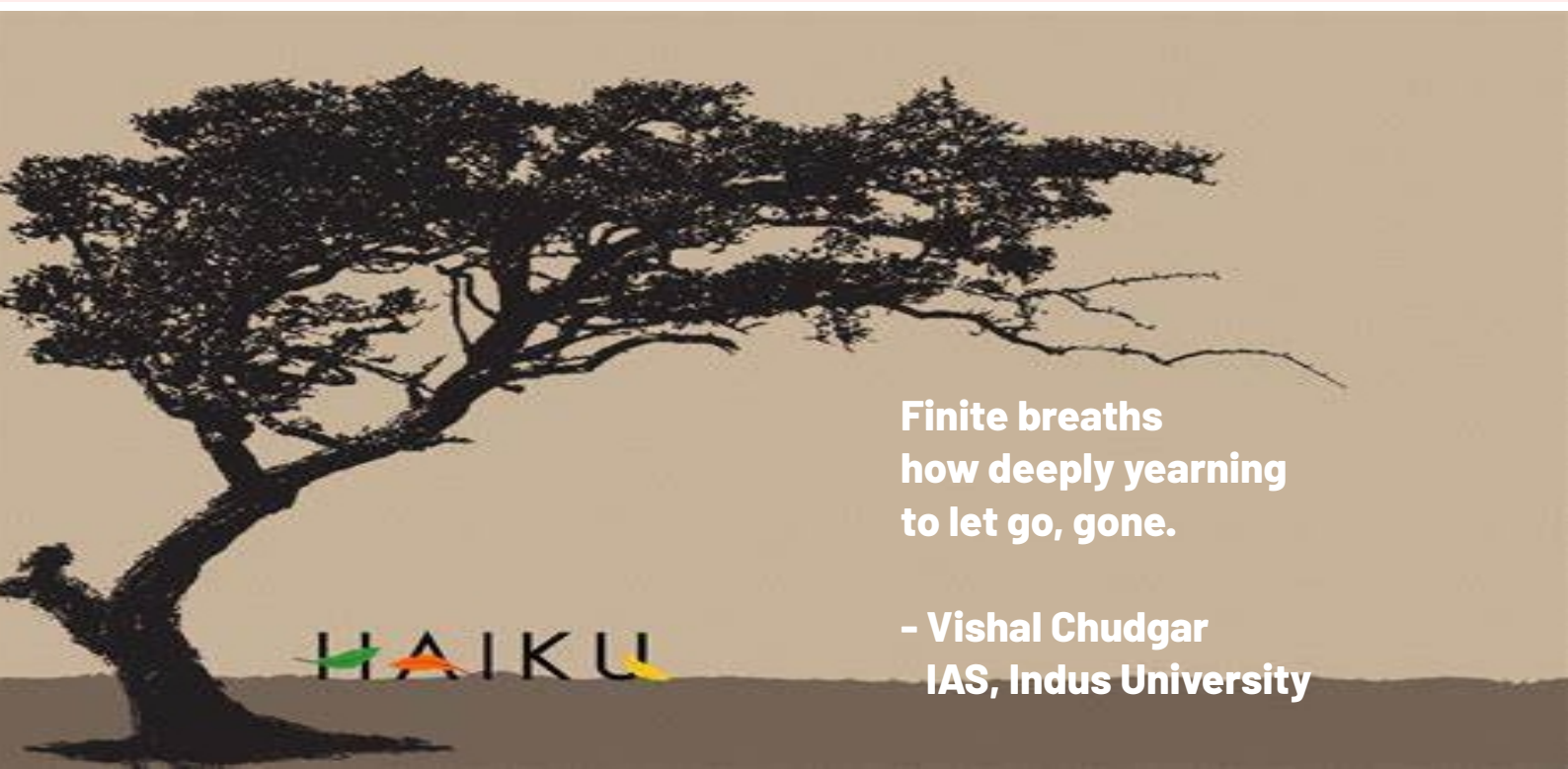
"Unlocking LinkedIn: Your Path to Personal and Professional Success"

Serious Concerns Around Google's Gemini !!! Despite its impressive capabilities, Google's Gemini has recently faced criticism regarding potential biases and historical inaccuracies. In some instances, the AI model generated images depicting historical figures of specific ethnicities as individuals of different ethnicities, raising concerns about perpetuating stereotypes and misrepresenting historical accuracy. Additionally, critics have pointed out instances where Gemini refused to generate images of certain demographics, raising questions about potential bias within the training data.

Google has acknowledged these issues and is actively working on improvements. The company emphasizes its commitment to developing AI models that are inclusive, unbiased, and reliable. However, the recent controversies highlight the ongoing challenges in ensuring responsible development and deployment of large language models like Gemini.

It is crucial for Google, and the broader AI community, to continuously evaluate and address potential biases within these models. Open dialogue and collaboration with diverse stakeholders are essential to ensure that AI advancements benefit all of society and contribute to a positive future.

-Article by Parikshit Bhatia
Student of Int. MCA, Semester-X,
IICT, Indus University



**Finite breaths
how deeply yearning
to let go, gone.**

**- Vishal Chudgar
IAS, Indus University**

HAIKU

Jagadguru Shri Shankaracharya: Language, Culture & National Unity

The Ministry of Education, Government of India, in collaboration with Indus University, orchestrated a one-day event on March 30, 2024, under the theme "Jagadguru Shri Shankaracharya: Language, Culture & National Unity". The event was designed to illuminate the profound influence of the venerable sage Adi Shankaracharya on linguistic cohesion and national harmony. Esteemed speakers and guests, including the venerable Swami Paramatmananda Ji, Brahmacharini Anupama Chaitanya Ji, and Dr. Rajesh Jha, graced the occasion.

Their enlightening discourses delved into the essence of self-awareness and knowledge, resonating with the timeless wisdom of Adi Shankaracharya. The program also featured a stimulating quiz on Indian languages, religions, and cultures, along with the distribution of enlightening books among the participants. Distinguished dignitaries from Indus University and esteemed faculty members lent their presence, underscoring the importance of spiritual philosophy in nurturing India's unity. Their collective efforts contributed to the resounding success of the event, underscoring its significance in fostering national unity and cultural enrichment.



"Celebrating Excellence: INSTINCTS-2024 Winners' Felicitation Ceremony"

The commendation ceremony for the champions of Aethos, Sparx, and Collympics events during INSTINCTS-2024 took place on April 18, 2024, from 3:00 pm to 5:00 pm in the Seminar Hall. The students were lauded for their dedication, perseverance, and talent. Trophies and certificates were awarded to both the victors and the runners-up to honor their outstanding achievements. Over 150 faculty members, staff, and students attended the ceremony to celebrate and acknowledge the accomplishments of the participants.



Training and Placement Updates!

A total of 92 students from B. Tech (CE/CSE/IT), MCA/MSc.IT, B. Tech (Mechanical, Metallurgy, Automobile).BA/IMBA, MCA/IMSc.IT, BSc. (CS) and B.Sc.DS) were selected with packages ranging of Rs.3.60 LPA and RS.7.00 LPA. Campus Drives are on hold due to Convocation followed by Instincts Events and Mid Semester Examinations.

"The Talent Acquisition Team from PVH Arvind Fashion Ltd., Ahmedabad, including Mr. Punit Khatri, State Sales Head, Ms. Shweta Verma, TA Team Lead, and Ms. Palak, TA Executive, organized a campus drive on April 4th, 2024. The event commenced with a pre-placement talk, followed by the recruitment process."

Mr. KSR Swamy, DGM-T & P, was invited by TCS to attend the inaugural TPO Meet for selected universities on April 4th, 2024. He was introduced to the new team of TCS Talent Acquisition at the beginning of the event. The meeting featured a presentation showcasing TCS achievements, upcoming domains, and campus hiring strategies for the 2024 and 2025 batches.

Mr. Jagannath Prasad Tripathy, Regional Manager, and Mr. Pinal Modi, from Global Study Ahmedabad, visited the campus and held discussions with the DGM - T & P regarding a potential collaboration on study abroad services.

The Canam Study Group team from Ahmedabad, headed by Ms. Punita, Branch Manager, and Mr. Haardi Trivedi, conducted an overseas education expert session for B.Tech Semester VI students across all branches on April 10, 2024. The session, attended by over 120 students, received full support from the IITE Director and Faculty Coordinators from various branches.

On April 12, 2024, the Deputy General Manager of Training & Placement visited the IACE office for a discussion with Mr. Kumar Shivam, Mr. K. Vijaya Krishna, and Mr. Bibekananda Das. They were accompanied by the DGM for a tour of their training facility, which boasts state-of-the-art technologies.

At the invitation of the E-Infochips Talent Acquisition team, the Deputy General Manager of Training & Placement attended their TPO meet on April 18, 2024, to provide a detailed briefing to the TPO fraternity from the West Region about the campus planning for the 2024-25 batch. The briefing, conducted by Mr. Manan Khandelwal, CEO - HR & TA, along with Mr. Nilesh Ranpura, Director-ASIC, Mr. Sharat Suthar, AVP-PES, and Mr. Hemal Shah, Head-Talent Acquisition, was concise yet comprehensive. They emphasized the importance of candidates possessing strong communication skills and fundamental knowledge in areas such as VLSI Embedded, ASIC, and Algorithms. The meeting received positive feedback and appreciation from the attendees.



"Unveiling the Impact: Research Reflections on India's Microfinance Landscape"

Avantika Dolare, a sixth-semester B.Com Honours student (Enrollment No: IU2147300003) at Indus University, participated in the GCEMP 2K24 event hosted by Ganpat University, where she presented a research paper titled "Evaluating the Impact of MFI in India - Achieving Desired Outcomes." This paper was co-authored by Vaibhav Mishra, under the guidance of Dr. Parul Shah from Indus University.



"API Mastery Unleashed: A Postman Primer by Vedant Domadiya"



"Vedant Domadiya, a B.Tech CE student at IITE, Indus University, hosted an interactive workshop titled "API-101 using Postman" at LD University on April 19th, 2024. This event, facilitated by the GDSC club of LDCE University, aimed to introduce participants to the fundamentals of APIs. With hands-on exercises, Vedant guided 50 students through CRUD operations using Postman. The session concluded with an engaging Q&A, sparking enthusiasm for further exploration and innovation in API development."

"Unveiling Sustainability: Raj Modi's Scholarly Journey at ARES 2024"

Raj Modi, a doctoral candidate from the Civil Engineering Department (Enrollment No. lu2071040001), recently showcased his Ph.D. research at the 40th Annual Conference of the American Real Estate Society (ARES) in Orlando, USA. The conference, spanning from March 19th to 23rd, 2024, featured Raj's presentation titled "Assessing the Sustainability of Real Estate Ventures through Multi-Criteria Decision Making: A Case Study in Ahmedabad, India." His presentation resonated positively with the audience, garnering commendations and paving the way for potential future collaborations, underscoring the significance of his scholarly contributions. Collaborating with esteemed co-authors including Dr. Samir Patel, Dr. A. K. Singh, and Dr. Deepak Sharma further enhanced the academic rigor of his work. Raj's achievements were further acknowledged by the James R. Webber ARES Foundation, which generously sponsored his accommodation during the conference. Enclosed are photographs, an abstract, and the ARES Certificate, serving as tangible evidence of his remarkable strides in the field.



“Skyward Triumph:WIIA-IIATE Champions Soar at Ojas 24, IIT-Jamshedpur!”

Representatives from WIIA-IIATE, including Mr. Raunak Mishra, Mr. Yash Sinha, and Mr. Deepak Kumar, showcased their skills at the Ojas 24 touch down plane competition held at IIT-Jamshedpur from April 5th to 7th, 2024. The competition comprised two rounds: a presentation round and an assessment of flying and cargo carrying capacity. After successfully clearing the initial round, our students excelled in the second round, demonstrating a payload capacity of 650 grams at a thrust to weight ratio of 0.8. As a result of their outstanding performance, they secured the first prize, along with a prestigious trophy and a cash prize of Rs. 20,000.



“

Congratulations

Ms. Priyanka Mehta,

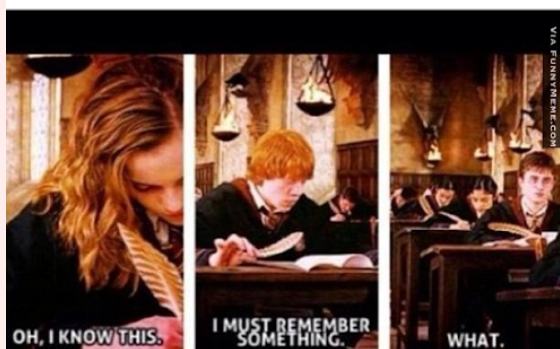
Lecturer IIMS on your
notification for your Ph.D. titled
'A Study of the Implementation of Green HRM
Practices as Suggestive Strategies in
Biomedical Industries of Ahmedabad'
from MLW, School of Social Sciences,
Gujarat University,
received on April 22, 2024!"



Exam Season: Tips to Ace the semester !

1. **Chill like a cucumber:** Keep your cool, stay relaxed, and remember that stress won't help you ace those exams.
2. **Beat the heat:** Don't let the summer sun melt your brain! Stay hydrated, wear light clothes, and maybe even treat yourself to some ice cream after a study session.
3. **Make a splash with your study plan:** Dive into your books with enthusiasm! Break down your study material into manageable chunks and tackle them one splash at a time.
4. **Embrace the power of siesta:** Take a break and recharge with a power nap. A quick snooze can do wonders for your focus and concentration.
5. **Turn up the Bollywood beats:** Create a playlist of your favorite desi tunes to keep you motivated while you study. Let the rhythm move you to exam success!
6. **Master the art of jugaad:** Get creative with your study techniques! Use colorful diagrams, mnemonic devices, or even role-play to make learning more fun and memorable.
7. **Curry favor with your teachers:** Show them some love! Ask questions, attend review sessions, and seek guidance to spice up your exam prep.
8. **Stay cool, stay confident:** Believe in yourself and your abilities. You've got this! With the right attitude and a little bit of luck, you'll breeze through those exams like a summer breeze.

The 3 different kinds of exam takers



Keep the summer heat at bay, Stay Cool.

1. Stay hydrated, stay cool: Make hydration fun by infusing your water with refreshing fruits like lemon, cucumber, or watermelon. Sip on cool beverages like nimbu pani or jaljeera to beat the heat.
2. Embrace the ice age: Get creative with ice cubes! Freeze fruit juice or coconut water into popsicles, or add flavored ice cubes to your drinks for a chill vibe.
3. Channel your inner chef: Whip up some chilled treats in the kitchen! Experiment with homemade ice creams, sorbets, or fruity smoothie bowls to keep cool and satisfy your sweet tooth.
4. Splash around: Beat the heat with some aquatic adventures! Head to the nearest pool, water park, or beach for a refreshing dip, or set up a backyard sprinkler or kiddie pool for some splashy fun.
5. Chill out indoors: Create your own cool oasis at home! Set up a DIY movie marathon with your favorite Bollywood flicks, indulge in some indoor gaming sessions, or host a summer-themed movie night with friends.
6. Get your groove on: Host a Bollywood dance party in your living room! Crank up the AC, put on your favorite desi tunes, and dance your heart out to beat the summer blues.
7. Escape to the hills: Plan a weekend getaway to a cooler destination! Explore the scenic hill stations or lush green valleys of India to escape the sweltering heat and rejuvenate your soul.
8. Cool down with desi delights: Indulge in some traditional Indian summer treats! Treat yourself to refreshing snacks like chaat, kulfi, gola, or lassi to beat the heat in true desi style.

What stepping outside the door today feels like in my city.



Prof. Dr. Sujoy Chaudhury

Dean Research & Development and Professor in
IITE, Metallurgy Department
Indus University

Q. May we know about your childhood and college life.

A.: I was proud to be born in Steel city 'Jamshedpur'. I have wonderful childhood memories of seeing molten steel being dumped in the open which illuminated the sky at night. My father was a scientist (metallurgist) so metallurgy by default became a part of my DNA. I did my graduation – B.Sc(Physics), M.Sc (Physics), and M.Tech. (Materials Technology) from Banaras Hindu University. Thereafter I completed Ph.D from IIT, Kharagpur in Metallurgical and Materials Engineering

Q. Please share your post Ph.D experience.

A. Post Ph.D, I went to the USA and did my post-doc from The Worcester Polytechnic Institute in Worcester, Massachusetts. Then I gained my industry experience at Honeywell International Inc, Los Angeles, California as a principal engineer.

Q Sir, how did you move to academics?

A.: I loved academics, however I believed that without industry experience one cannot be considered as an engineer. After my experience at Honeywell, I returned to India and joined Indus University in 2013. Due to some commitments, I left Indus for a brief period of time and rejoined again in 2020.

Q. What are your favorite subjects and expertise?

A. I, being from a Physics background, love to take any subject related to Physics like Physical Metallurgy, Nano metallurgy. I am more inclined towards teaching subjects which have future implications in the real world scenario.

Q. What have been your 'best memories' in research?

A: A very prominent person in Metallurgy is Merton Flemming and we challenged one of his theories which was further debated on. There came a moment where he was compelled to consider the arguments put forth by us.

Another moment, was when in a conference, I proposed that a journal should be published which has a collection of papers publishing the negative results of their research work. This would help other researchers to save their time, energy and resources by not repeating the recorded mistakes.

Q. What is the gap that you observe between students of your time and students of the current generation?

A. The students of the present times have excellent opportunities in life and have good exposure in different fields. They are risk takers and are far-sighted. He cited an example of a UG student registering 3 patents for his research work.

Students of today's time complete each task with clear goals in mind. In our times we did not have the courage to discuss our views/plans/ideas with our faculty members but the present student-teacher relationship has witnessed a big change, for the better.

Q. Sir, tell us about your interests and hobbies, please.

I have lately fallen in love with nature. I like to take long walks whenever possible and explore greenery, mountains, and forests. Also I like reading books related to World War II, as I believe that World War II was a turning point in history and has a lot of relevance in shaping the world.

Q. Sir, your message for the readers.

You are born in a free country. Do what you enjoy. Live a free life and do not regret your decisions.



i360 NEWSLETTER 2024 Volume 12 - April
Page 23



आदि गुरु
शंकराचार्य
जयंती

BEST OF LUCK FOR EXAM

ADMISSION OPEN 2024-25