



***i360 NEWSLETTER***  
**2023**  
**Volume 4 - August**



*In Spotlight*  
**"Dr. Dipti Sethi"**  
Professor IIMS, Indus University

## EXPERT SESSION

An Expert Session was organized by Dr. Rachna Patel, IIMS which was delivered by Dr. Prateek Kanchan, Professor and Director, Bk School of Professional and Management Studies, on the topic 'Advertising in Current Era' from 11:00 AM to 12:00 PM.



## BOOK PUBLISHED

Dr. Disha A. Shah, Assistant Professor, IICT, published a Book entitled "Functional Separable Method and its Applications" in Lambert Academic Publishing.



## HAR GHAR DHYAN SESSION

Ms. Shivkanya Phutke, Assistant Professor, IIPR attended "Har Ghar Dhyana Session" under "Indian Meditate" organised by THE ART OF LIVING from 31st July to 06th August, 2023.

## FACULTY DEVELOPMENT PROGRAMME

Dr. Disha A. Shah, Assistant Professor, IICT, has participated in the seven day international virtual faculty development programme on "Research Insights for Academic Excellence" organized by Department of Mathematics, KPR College of Arts Science and Research, Coimbatore - 641407, Tamil Nadu, India during 3rd to 8th August, 2023.



## CAMPUS VISIT

As part of the subject 'Electricals' for Technical Module 5, an Indus University campus visit was conducted for the students of Semester 5 on 2 August 2023 by Mr. Dipak Makwana (Junior Engineer, Maintenance), coordinated by Dr. Monika Gupta, Associate Professor and Ar. Vishal Chudgar, Assistant Professor. The students were able to build a comprehensive understanding of the electrical distribution system of the campus.

## EVANGELISE '23

Evangelise '23 - India's biggest Electric Vehicle Innovation Challenge - a flagship event organized by icreate- the Centre for Entrepreneurship and Technology, India's leading incubator of tech startups supported by the Government of Gujarat as well as the Government of India conducted a session at Indus University to create awareness among the students about the innovations in the field of Electric Vehicles. The event was attended by 150+ participants. The event was jointly coordinated by the Association of Computer Science and Information Technology (ACSIT), DCS, IICT and Student Affairs Committee (SAC), Indus University. At the end of the event, all the students were invited for the visit at the campus of icreate. Dr. Akshara Dave, Assistant Professor, IICT was the coordinator of the event.





## AWARDED Ph.D

One of the Ph.D student of Dr. Rawesh Kumar, Associate Professor, Chemistry, IISHLS, was awarded the Ph.D degree at Sankalchand Patel University. The concern letter of Ph.D award is released on 3rd August, 2023.



## WIIA INDUCTION PROGRAMME

Induction Program of first year student was organized by WIIA and IATE held on 03/08/2023. More than 150 students along with their parents were present. A motivational speech was delivered by Shri Nitin Sangwan (IAS) Director of Civil Aviation Department, Govt. of Gujarat and Shri Dr. Nagesh Bhandari, Presidential Secretariat, Indus University.



## CHHAT KI CHAHAT 4.0

With unwavering support and dedication, Rotaract Club of Indus University (RCIU) achieved the mission of creating 45 protective shelters for deserving families. In a world full of hustle, RCIU recognize those in need who seek shelter from life's storms, reign of rain, scorching heat, and freezing cold. 33 members participated in this initiative to distribute durable synthetic sheets as a shelter to 45 needy families in Ahmedabad on 04 / 08 /2023. Beyond just providing shelters, this event strengthened community's spirit and ignited a flame of kindness and compassion. Together, RCIU showcased the power of unity and generosity. Chhat Ki Chahat 4.0 has left a positive mark, creating a better world for those seeking shelter from life's storms.



## FACULTY DEVELOPMENT

Madhvi A. Bera, Assistant Professor, IITE attended the Seasonal School on Revolutionary Solutions for Biomedical Signal and Image Analysis using AI 2023 organised by IEEE Signal Processing Society, Gujarat is organising with SPS SCET SB and SPS CKPCET SB from 1st August to 5th August, 2023.



## EXPERT LECTURE SERIES

Mr. Nitin Upwar, Assistant Professor, IIPR attended, DBT-Sponsored popular lecture series on "Theranostic Nanomedicine" on 05 August 2023 organised by Dept. of Pharmaceutics, NIPER AHMEDABAD.



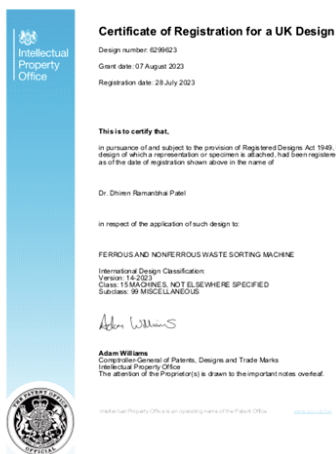
## FACULTY DEVELOPMENT PROGRAM

Komal Thawrani, Assistant Professor, Indus Architecture School, was invited for an expert lecture on the topic, "Contribution of Indian Knowledge System in Town Planning" as part of the Faculty Development Program at Gujarat University on 9th August. The FDP was organized by Bharat Shodh Sansthan, Institute of Indic Studies, Gujarat University.



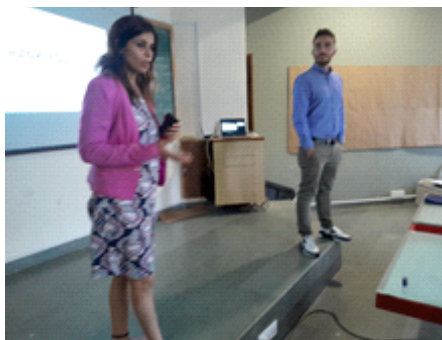
## DESIGN PATENT

Dr. Dhiren R. Patel, Assistant Professor, IITE, received a certificate of registration for a UK Design Patent for FERROUS AND NONFERROUS WASTE SORTING MACHINE on 7th August, 2023.



## EXPERT LECTURE

A team from NABA, the best academy of fine arts (No.3 in top 100 in world) led by Mr. Guiseppe Abela, Training & International Field Operations Specialist, accompanied by Ms. Kajol Raajani, Area Manager, India, and Ms. Amrinder Kaur, Ahmedabad, visited Indus Design School on 9th August and addressed the B.Design student. The session was organized by the T & P department with the support of the Indus Design School and was attended by more than 30 students.



## T & P DEPARTMENT

T & P department has organized soft skills training sessions on 12.08.23 between 9.30 am and 4.30 pm covering : (1) Resume Building; (2) Decoding Interviews; (3) Email etiquettes; and (4) Group Discussions. 1st and 3rd sessions were handled by Ms. Drishta Barot, Communications Faculty from IIMS while 2nd and 4th sessions were handled by Ms. Adwitiya Acharya, Manager T & P. These sessions were exclusively organized for B.Tech (All Branches) from IITE; and MCA/MSc.IT and BSc. Students of IICT, who have opted for placement support. Out of 503 students opted for placement, only 198 students attended the sessions (150 from IITE and 48 from IICT).

Technical training sessions are conducted at the dept. level - Monday to Friday between 3.00 pm and 5.00 pm by the respective Faculty Coordinators on daily basis.



## EXPERT TALK

Dr. Manisha Ubale, Associate Professor, Mathematics, IISHLS delivered expert talk at Student Innovation Fest-2023 organised by Vigyan Gurjari on 10th August, 2023.





## HOSPITAL VISIT

Dr Mayur Savaliya, Assistant Professor, Clinical Research, IISHLS, initiated a hospital visit of students of B.Sc CRHM semester 3 at Civil Hospital, Asrwa, Ahmedabad, on 10th August, 2023. The students have visited department of pulmonary medicine and cancer ward of civil hospital and had interact with patients to complete their case studies.



## INTER COLLEGE DESIGN FESTIVAL

IDS - Interior Department students participated in an Inter College design festival organized by IIID - Ahmedabad Chapter. The eight students from semester V & VII along with the Academic Mentor - Ms. Aakash Patel participated in this event where they were paired with the students of CEPT University and participated in competitions like Debate, Quiz, Hands-on, and many more.



## AAKRUTI 2023

Dr. Dhiren R. Patel attended the on boarding session for the AAKRUTI 2023 contest organised by Dassault Systemes on 14th August 2023.

## MOU

Shri Rahul Shah from AAR-Aviation visited WIIA and Indus University campus on 14/08/2023. AAR is an independent provider of aviation services to commercial and government customers worldwide. Mr. Shah has now focused his attention on growing AAR's presence in Africa, India and the Middle East, in addition to the Asia Pacific. As Senior Vice President, Mr. Shah manages operations, sales, and marketing efforts across these regions from an office in Singapore. MOU was signed between Shri Rahul Shah and Ms. Radhika Bhandari for collaborative work in presence of Presidential Secretariat and Indus Family.



## PRE-PLACEMENT VISIT

Technovate IT Solutions LLP Talent Acquisition led by Ms. Heema Mehta, and the CTO, visited the campus on 25.08.23 and conducted a pre-placement session for the B.Tech (CE/CSE/IT/EC), MSC./IMSc. IT, MCA/IMCA, BSc.(CS) and B.Sc.(DS) students passing in 2024. 182 students attended the session. The session was quite informative and cleared the doubts of the students.



## 77th INDEPENDENCE DAY CELEBRATION

Indus University commemorated India's 77th Independence Day on 15/08/2023 by celebrating the occasion with utmost pride and patriotism. With utmost honour and dignity, Chief Guest, Dr. Sandeep Chakravorty sir, Honourable Executive President of Indus University hoisted our National flag which was followed by the NCC Nirikshan, NCC Pared and National Anthem.

Indus University felicitated faculty members for their excellent performance in the field of Research and Development with certificate and cash prizes.

Students performed patriotic songs, dances, and nukkad natak, which the audience enthusiastically liked. Tribute was paid by bestowing a garland of flowers to Bharat Mata by all Indus Pariwar. More than 400 faculty members, staff members, and students gladly participated in the celebration of Independence Day. This event was organized by Student Activity Cell.



## क्षुधापूर्ति

"Ksudhapoorti" is an initiative by Rotaract Club of Indus University to distribute 500 food kits to provide single-course meals to needy people of Ahmedabad. KSHUDHAPOORTI क्षुधापूर्ति, held on the 15th August 2023. With immense satisfaction and a sense of purpose. 45 members of RCIU accomplished this mission by serving 500 smiles and sharing an equal number of plates on 15/08/2023.



## FACULTY AWARD

On the occasion of Independence Day, Indus University awarded the following faculty members with the Best Research Award:

Dr. K. Santhy, Metallurgy Department, IITE was awarded 1st Prize and cash reward of Rs.15,000 for her outstanding performance in Research & Development for the academic session 2022-23.

Dr. Rawesh Kumar, Chemistry Department, IISHLS was awarded 2nd Prize and cash reward of Rs.10,000 for his outstanding performance in Research & Development for the academic session 2022-23.

Dr. Manisha Vithalpura, Physics Department, IISHLS was awarded 3rd Prize and cash reward of Rs.5,000 for her outstanding performance in Research & Development for the academic session 2022-23.

Ms. Nisha Thankachen, Physics Department, IISHLS was awarded Best Young Researcher Award and a cash reward of Rs.5,000 for her outstanding performance in Research & Development for the academic session 2022-23.



## AUCTION

"The Auction" event organized by the Computer Engineering Student Association (CESA) of CE/IT/CSE Department was a resounding success, bringing together a fusion of computer programming prowess and the excitement of an auction. Held on the 16th of August, the event surpassed expectations, creating a vibrant atmosphere filled with innovation and competitive spirit.

## PRE-PLACEMENT SESSION

o2h Technology Team led by Ms. Shivangi Shukla and Ms. Nikita, visited the campus and conducted a pre-placement session for the B.Tech (CE/CSE/IT/EC), MSC./IMSc. IT, MCA/IMCA, BSc.(CS) and B.Sc. (DS) students passing in 2024 on 16.08.23. 198 students attended the session. The session was quite informative and cleared the doubts of the students.



## ONE DAY SEMINAR

Department of Computer Science, Indus Institute of Information & Communication Technology organized a one-day seminar on Certified Cyber Security Expert program on 16 th August 2023 from 03:00 PM onwards. Almost 80+ students attended the program. The expert of the seminar was Mr. Krishna Sharma, Cyber Security Expert from Heritage Cyberworld LLP. Ahmedabad. The topics discussed by the expert were: Fishing, security, VoIP, Infrastructure, Critical Infrastructure, ICS, Scada and Flexspy. Ms. Mansi Mehta, Assistant Professor, IICT was the coordinator of the event.



## ICSII StartUp Idea Repository

Theme of the month: Sustainability

### Sustainable Transportation App:

Develop a mobile app that integrates public transportation information, carpooling, and bike-sharing services to encourage sustainable commuting for university students. Provide real-time updates, route suggestions, and incentives for choosing eco-friendly transportation options.



www.icsii.indusuni.ac.in



## SEMINAR

Department of Electronics and Communication, Indus Institute of Technology & Engineering organized the Seminar on "Electromagnetic Radiation Awareness and Tower-related Cyber Frauds" on date 18.8.2023 from 3:00 PM onwards in Seminar Hall, 1st Floor, Main Building, Indus University Campus. The chief guest for the event was Shri Rajeev Kushwah, Director, Department of Telecommunication, Govt. of India. In his address, he raised awareness regarding mobile phone towers and government norms of allowable cell tower radiation limits. Additionally, he provided the URL of the official government website that certifies cell tower compliance. HoDs, faculties along with approximately 20 student participants, attended the session.



## DESIGN SPRINT

IDS Student association organized a Design Sprint where the students from different disciplines participated in groups. The idea of the event was to design and execute Installations that depicts the IDEA of WHAT IS DESIGN. Students presented their ideas in form of murals and installations.



## VISIT TO VADNAGAR

21 students of 5th semester from IDEA Department, were engaged in understanding parts of the city of Vadnagar from 21st Aug to 27th Aug 2023. The course looked at the understanding of the place of Vadnagar, studying the cultural aspects and learning about how architecture responds to them.

Conducted by Asst. Prof. Atreya Bhattacharyya and Teaching Assistant Shaily Bhavsar, the course dealt with documentation and representation of experiential learning of students as they engage with the city.



## MAKING GUJARAT A GLOBAL DESTINATION FOR QUALITY EDUCATION

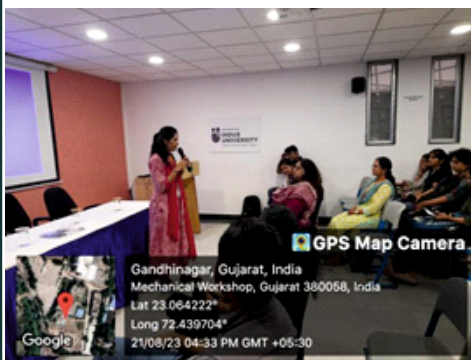
Congratulations to Radhika Madam, Dean of Aviation, for her insightful participation as a panellist at the ASSOCHAM-organized event! The discussion centred around "Making Gujarat a Global Destination for Quality Education." Radhika Madam's contribution, alongside Anju Sharma IAS, was truly remarkable, engaging vice chancellors and senior administrators in meaningful conversations on 19/08/2023.





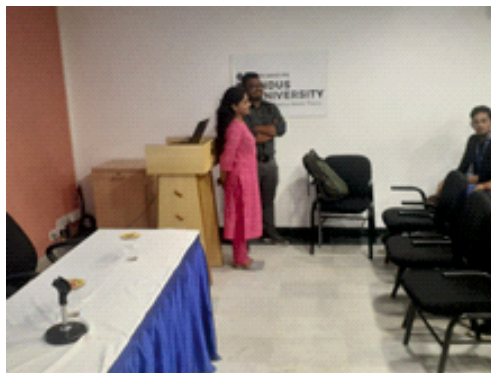
### WORKSHOP ON "MINDFUL CLICKS: CULTIVATING DIGITAL WELLNESS "

A workshop on "Mindful Clicks: Cultivating Digital Wellness " was organized by Women Development Cell on 21 August 2023. The workshop was taken by Mr. Viral Parmar from COMEXPO Cyber Security Foundation. Mr. Viral Parmar is a Developer Advocate, Productivity Hacker, Open Source Strategist, Technology Evangelist, Community Liaison and International Tech speaker. He was accompanied by Ms. Tejal Vasavada, Director of Americal Corner Ahmedabad and Mr. Jay Merja , Entrepreneur "BYWAY logistic firm", Ahmedabad. The highlights of Workshop were to give basic knowledge about cyber bullying , cyber stalking and cyber harassment related to all social media platforms. Approx. 75 students and 15 Faculty members from IITE ,IICT,IIPR and IIMS attended the workshop.



### TALENT ACQUISITION OF ARASTU SYSTEMS

Talent Acquisition of Arastu Systems (Arrow Group) Team led by Ms. Sakshi Singh, HR Head and Mr. Harsh, CTO) visited the campus on 22.08.23 and conducted a pre-placement session for the B.Tech (CE/CSE/IT/EC), MSC./IMSc. IT, MCA/IMCA, BSc.(CS) and B.Sc.(DS) students passing in 2024 on 16.08.23. 202 students attended the session. The session was quite informative and cleared the doubts of the students.



### " INDUSTRIAL SICKNESS & THE INSOLVENCY AND BANKRUPTCY CODE, 2016 "

A Full Day Certificate Program "Industrial Sickness & The Insolvency and Bankruptcy Code, 2016 " on 22nd August, 2023. The Program was inaugurated By Dr RK Singh , Registrar , INDUS University by lighting the Ceremonial Lamp and followed by Saraswati Vandana. Dr Umang Patdiwala , HOD IIMS, gave the Welcome Address and Dr R K Singh delivered the KeyNote Address. The Program was conducted by Dr Rajesh Ojha , Associate Professor (Finance) through 4 Technical Sessions. This program was attended by 145 + Management and Law Students. Dr Sandeep Chakravorty, Executive President and Mrs Meeta Agarwal DGM Administration also graced the Program with their Presence. The Entire Event was coordinated by IIMS MDP Unit - Dr Umang Patdiwala , Chairperson, Dr Rajesh Ojha , Convener , and a Team of highly Motivated Management Students.



### "SURAKSHA SETU" INITIATIVE.

Miss Radhika Bhandari, Dean Aviation, WIIA and IIATE, and Deputy Registrar-Dr. Suketu Jani had a meeting with Shri Anil Pratham IPS, DGP (Police Reforms) in Gandhinagar, on 23/08/2023 discussing the dynamic partnership between Indus University and Gujarat Police for the "Suraksha Setu" initiative. This initiative aims to foster women's empowerment, enhance general awareness, and build the capacities of our youth.



### VISUAL VIBES

The eagerly anticipated "VisualVibes" event unfolded on the 23rd of August 2023, from 3:00 PM to 5:00 PM, and it was nothing short of a celebration of creativity and design prowess. Hosted by CESA this graphic design event drew participants from various backgrounds to showcase their artistic flair and imagination.

The success of "VisualVibes" wouldn't have been possible without the active participation of the teams, the dedication of the coordinators, and the support of the judges. As the event came to a close, the feeling of accomplishment and inspiration lingered in the air, promising a future bright with innovative designs and imaginative creations.



### PRE-PLACEMENT SESSION

Talent Acquisition Team of Inventory Software Solutions LLP, led by Mr. Nishith Parikh, HR Head visited the campus on 24.08.23 and conducted a pre-placement session for the B.Tech (CE/CSE/IT/EC), MSC./IMSc. IT, MCA/IMCA, BSc.(CS) and B.Sc.(DS) students passing in 2024.



### Ph.D VIVA-VOCE

The Ph.D viva-voce examination of Mr. Lalitkumar Narsingani on his thesis entitled "Numerical Solution of MHD Fluid Flow Problems Using Spline Collocation Methods" held on 24th August 2023 successfully. It was guided by Dr. Jigna Panchal.



## IDEA ORIENTATION PROGRAM

Indus Architecture School, IDEA, Indus University, conducted the Orientation Program.



## PRE-PLACEMENT SESSION

Kody Technolab Talent Acquisition led by Ms. Kalpana Kody, Ms. Saloni Jain, Mr. Shubh Kody and the CTO, visited the campus on 25.08.23 and conducted a pre-placement session for the B.Tech (CE/CSE/IT/EC), MSC./IMSc. IT, MCA/IMCA, BSc.(CS) and B.Sc.(DS) students passing in 2024. 168 students attended the session. The session was quite informative and cleared the doubts of the students.

## EXPERT TALK

Department of Computer Science, Indus Institute of Information & Communication Technology along with Association of Computer Science and Information Technology (ACSIT) organized an expert talk on "React JS" on 24th August, 2023 from 3:00 PM onwards for all the students of IMSC, IMCA, MSC and MCA. The session was taken by the faculty members of "Red and White Multimedia Education" company. The session ended with a note that explained uses of trending front end and back end languages. 120 participants and seven faculty members and Head of the department Ms. Bhavna Hotchandani Ma'am were also present in the session. The whole session was managed by ACSIT Faculty Coordinators Dr. Akshara Dave and Ms. Honey Shivnani along with ACSIT Student coordinators.



## EXPERT SESSION

Department of Computer Science, Indus Institute of Information & Communication Technology organized an Expert Session cum Workshop on Internet of Things (IoT) for the students of IICT. The workshop was attended by 30+ students of Postgraduate and final year Undergraduate programmes. The workshop provided the basic knowledge of IoT technology, discussed Arduino & Raspberry Pi IoT boards and imparted fundamental knowledge of interconnecting devices and creating a demo application to communicate with the connected devices. The resource persons for the same were, Mr. Vivek Malam & Mr. Dhiraj Mepani, final year students of Postgraduate programme and Mr. Deepal Shah, Assistant Professor, IICT. Ms. Mansi Mehta, Assistant Professor, IICT was the coordinator of the event.





## DevOps WORKSHOP

Department of Computer Science & Engineering successfully organised "DevOps 101 Workshop" on August 25th, 2023, from 3 to 5 pm. The event featured a keynote speaker Mr. Mehul Patel, an Open Source Advocate, Community Evangelist, and AWS Certified professional. The workshop delved into the world of DevOps, highlighting its core principles of communication, collaboration, integration, and automation between development and operations teams. With a total of 65+ participants from all semesters, the event covered essential topics including DevOps introduction, version control with Git, continuous integration using Jenkins, configuration management through Ansible, and continuous deployment via Docker. The workshop provided valuable insights into the practices and principles that underpin efficient software delivery and IT operations. Workshop was coordinated by Mr. Hiren Mer and Ms. Madhvi Bera, Assistant Professor, CSE Department.



## CAMPUS DRIVE

The First on campus drive of 2023-24 batch placement season was conducted on 26.8.23 by RAPIDOCs, a leading IT company. 178 registered and only 152 attended the drive. A 10 member team led by Ms. Sashmita Mishra, Head-HR, CTO and Team Leads of different domains conducted the drive. The drive began with a pre-placement presentation by the HR, followed by 45 minutes online test, shortlisting, 2 technical and 1 HR round. Out of 152, 37 cleared the online test, 15 cleared first round, 3 cleared 3rd round and only 2 were selected in the HR round.

## INDUSTRIAL VISIT

Mechanical Engineering Department, IITE, organized Industrial visit on 26th Aug 2023 at Elecon Engineering Company Limited (a Core Mech Engg Company), Vallabh Vidyanagar, Gujarat. Total 29 MED Students of B Tech Sem 3 & 5 have participated along with a faculty Prof. Piyush Surani.



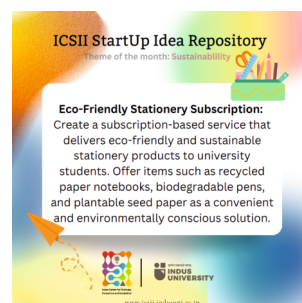
## STATE LEVEL POSTER COMPETITION

Mr. Monil Salot, Assistant Professor, Materials and Metallurgical Engineering, IITE, successfully conducted state level poster competition on 26 August, 2023.



## WORKSHOP

Mr. IndraJeet Rajput and Mr. Sanjay Makwana, Assistant Professor, Computer Engineering, IITE, successfully conducted a workshop on "Data Science with Microsoft Power BI" on 26 August, 2023.



## PAPER PUBLICATION

Dr. Rawesh Kumar, Associate Professor, Chemistry, IISHLS has published a research article entitled "Tailoring strontium-promoted alumina-zirconia supported Ni-catalysts for enhanced CO<sub>2</sub> utilization via dry reforming of methane: Sr loading effects and process optimization" in SCI index international journal "Journal of CO<sub>2</sub> Utilization" (Publisher Elsevier, Impact Factor: 7.7) on 26 August, 2023.



Tailoring strontium-promoted alumina-zirconia supported Ni-catalysts for enhanced CO<sub>2</sub> utilization via dry reforming of methane: Sr loading effects and process optimization

Ahmed S. Al-Farshi<sup>a</sup>, Maher M. Alkhrdaji<sup>b</sup>, Radwa A. El-Salamany<sup>c</sup>, Mai H. Roushdy<sup>d</sup>, Saba M. Alwan<sup>e</sup>, Ahmed I. Osman<sup>f</sup>, Mohammed Bayazez<sup>g</sup>, Anis H. Fakhera<sup>h</sup>, Ahmed A. Ibrahim<sup>i</sup>, Rawesh Kumar<sup>j</sup>

<sup>a</sup> Chemical Engineering Department, College of Engineering, King Saud University, P.O. Box 802, Riyadh 11461, Saudi Arabia  
<sup>b</sup> Process Engineering Department, Applied Artificial Research Institute (AARI), Cairo 11522, Egypt  
<sup>c</sup> Chemical Engineering Department, Faculty of Engineering, The British University in Egypt (BUE), El Shoubra El Khayma, 11847, Egypt  
<sup>d</sup> College of Science, King Saud University, P.O. Box 802, Riyadh 11461, Saudi Arabia  
<sup>e</sup> School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast BT9 5AQ, Northern Ireland, UK  
<sup>f</sup> Department of Chemistry, India University, Shimla-171005, Himachal Pradesh, India

### ARTICLE INFO

Keywords:  
Strontium promoter  
Ni active site  
DRM  
Response surface methodology  
Process optimization

### ABSTRACT

An urgent need exists in the dry reforming of methane (DRM) community for a cost-effective and high-performance catalyst system to facilitate the industrial production of H<sub>2</sub> and syngas. In this study, we prepared a catalyst composed of a Ni with 20% SrO with Al<sub>2</sub>O<sub>3</sub> support, Ni as active sites, and a strontium promoter, which offers promising activities. Characterization of the catalysts (DRM) was carried out in a fixed-bed reactor using NiO, surface area and pore size analysis, and TPR, TPO, TPD techniques, revealing the stability of metallic Ni. Based on the reduction of "industrial standard 300-species" under reducing conditions, incorporating 1 wt% Sr to the NiO/Al<sub>2</sub>O<sub>3</sub>-Al catalyst enhanced reducibility and promoted efficient reduction of carbon deposits by CO<sub>2</sub>. The resulting (DRM) (DRM) catalyst exhibited additional strong NiO sites, leading to ~80% H<sub>2</sub> yield and efficient inhibition of parasitic by-product formation. Remarkably, the H<sub>2</sub> yield remained stable at ~70% over 100 h on stream, while process optimization using response surface methodology yielded an optimized H<sub>2</sub> yield of 80% under specific conditions. Experimental validation demonstrated an H<sub>2</sub> yield of 80.4% with excellent stability for a 16-hour run on stream. Overall, the prepared catalysts demonstrate cost-effectiveness, high performance, and stability, making it a promising candidate for DRM applications.

## INDUSTRIAL VISIT

Department of Automobile Engineering, IITE organized an industrial visit to RBD Engineers casting based company on 29th August 2023. Students learned many new things regarding FOUNDRY CNC CMM technologies and it was a knowledgeable session for students. Jinesh Kamdar Assistant Professor and Madhusudan Barot Assistant Professor from IITE were the faculty coordinators for the same.



## ONLINE FDP

Dr. Ashutosh Shukla, Assistant Professor, Clinical Research Department, ISHLS attended One Week Online Faculty Development Programme to Develop Skill Panorama on Research Methodology Based Data Analysis Using R during August 21 - 27, 2023. It was organized by Lucknow University.



## MEMBER OF IIW

Mr. Jignesh Patel become a member of Indian Institute of Welding.



## THE INDIAN INSTITUTE OF WELDING

(A Member Society of the International Institute of Welding)

Registered & Head Office:  
IIW-INDIA HOUSE, Plot No. 38, Ganga Park,  
200 Kallappa Main Road, PO: Mahanagar, Kolkata - 700099, INDIA  
Tel: 91 33 2415 0826 / 98301 23968 | Telefax: 91 33 2415 0826  
E-mail: [iiw@iiw.in](mailto:iiw@iiw.in) | Website: <http://www.iiw.in>  
CIN: U27109WB1966GAP000007 | GSTIN: 19AAAT19292612C

Ref: IIW/CH-333/MC/2023  
Dated: 20/07/2023

BAR/M/R-13883  
Mr. Jigneshkumar Manilal Patel  
Tiruppur, Tamil Nadu  
DI- Patan, Gujarat - 384225  
Email: [jiiw@iiw.in](mailto:jiiw@iiw.in) / [jignesh.me81@gmail.com](mailto:jignesh.me81@gmail.com)  
Contact: 9725365880

Subj: Membership Confirmation in Jun-2023

Dear Sir,

Greetings from The Indian Institute of Welding (IIW-INDIA)!

I have pleasure to inform you that you have been elected as a Member of the Institute on 10<sup>th</sup> of July 2023.

- |                                |                            |
|--------------------------------|----------------------------|
| 1. Grade of Membership and No. | Member (BAR/M/R-13883)     |
| 2. Date of Election            | 10 <sup>th</sup> July 2023 |
| 3. Rate of Annual Subscription | Rs. 1,250.00               |
| 4. Annual Subscription due on  | 10 <sup>th</sup> July 2024 |
| 5. Membership Valid till       | 9 <sup>th</sup> July 2024  |

You are attached to Baroda Branch of the Institute as you reside within its boundary.

The payment of Rs. 2,550.00 made by you had been adjusted as follows.

- |  |                |
|--|----------------|
| Entrance Fee                             | Rs. 1,250.00   |
| Transfer Fee                             | Not Applicable |
| Subscription for 10/07/2023 - 09/07/2024 | Rs. 1,250.00   |
| Tax (GST @18%)                           | Rs. 450.00     |

Henceforth, please quote your membership number only in your future remittances and correspondence with this office.

Thanking you,

Yours faithfully,

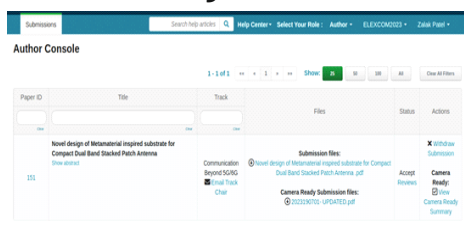
  
Hony. Secretary General  
The Indian Institute of Welding

C.C.: Hony. Secretary, IIW-INDIA Baroda Branch for information and necessary action

WELDING - FOR NATION BUILDING

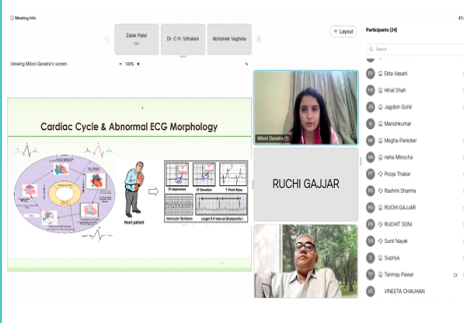
## PAPER PUBLICATION

Ms. Zalak Patel, Assistant Professor, Department of Electronics & Communication Engineering, IITE presented a research paper entitled "Novel design of Metamaterial inspired substrate for Compact Dual Band Stacked Patch Antenna" in the IEEE International Conference On "Electrical, Electronics, Communication and Computers" ELEXCOM-2023 organized by IIT-Roorkee on August 26-27, 2023.



## OPEN SEMINAR

Prof. Miloni Ganatra, Assistant Professor, IITE, successfully gave open seminar of Ph.D in GTU on "An Area And Power Efficient Signal Denoising And Morphological Feature Extraction Architectures For ECG Signal Analysis" on August 28, 2023.





## CAMPUS DRIVE

SYNOPTTEK CAMPUS DRIVE FOR 2023-24 BATCH was held on 31.08.23 for B.Tech (CE/CSE/IT/EC), MCA/IMCA, MSc.IT/IMSc.IT, BSc.(CS) BSc.(DS) students. 4 students got selected.

## CAMPUS DRIVE

Out of 3 off campus drives held for 2023 passed batch of B.Tech during the month, 5 students got selected at an average package of Rs.3.00 LPA in Bosch Rexroth, Landmark (Volkswagon) and Landmark Honda. The average package of the 2023 passed batch stood at Rs. 5.00 Lakhs per student.

Placement Season for 2023-24 batch of B. Tech (CE/CSE/IT/EC), MCA/IMCA, MSc.IT/IMSc.IT, BSc. (CS) and BSc. (DS) began with the first Virtual Drive spreading from 9th August to 31st August 2023. Pre-placement Presentations to the students opted for placement by HR Teams of Arastu Systems, Kody Technolab, Inventy IT Solutions, Technovate Solutions, were conducted between 22nd and 25th August.

On campus drives by Rapidops on 26th August and Synoptek on 31st Oct. 2023 were conducted. 6 students got selected at a package of Rs.3.60 LPA and their joining is scheduled in Dec.2023/Jan.2024.

## EMPLOYABILITY TEST

T & P compiled data of students opted for placement both from IITE and IICT and shared it with Pod.AI (formerly Calyxpod) to conduct the Employability Test on 02.08.23. Report cards were shared with the students individually on their official email id by the facilitator within 2 hours after the test. Combined detailed report of all students who appeared for the test has been shared with T & P. The reports of: (1) Communication Skills+ Logical Reasoning + Aptitude; (2) Fundamental knowledge of Computers and (3) Computer programming skills of both B. Tech (All Branches) and MCA/MSc.IT (IICT) were analyzed and shared with the concerned departments.

## PAPER PUBLICATION

Dr. Nikunj N. Valand, Assistant Professor, Department of Chemistry, IISHLS published a research paper entitled "Synthesis of Spiro-Pyrrolizine and Pyrrolidine derivative of Tryptanthrin and Evaluation of Their anti-bacterial, anti- fungal and anti-mycobacterial activities" in the journal of Eur. Chem. Bull. (Scopus) on August, 2023.

DOI: 10.48047/ecb/2023.12.10.756

## PAPER PUBLICATION

Dr. Nikunj N. Valand, Assistant Professor, Department of Chemistry, IISHLS published a research paper entitled "Design, synthesis and biological activities of Dispiroimidazolidine-Pyrrolizine/pyrrolidine derivatives via 3 component 1,3-Dipolar cyclo-addition reaction." in the journal of Eur. Chem. Bull. (Scopus) on August, 2023.

DOI: [10.48047/ecb/2023.12.10.785](https://doi.org/10.48047/ecb/2023.12.10.785)

## BOOK PUBLICATION

Dr. Vrushank Shah, HoD (ECL/EL) Published a Book as an Editor "Handbook of Research on AI-Based Technologies and Applications in the Era of the Metaverse," published by IGI Global and indexed in SCOPUS, this book explores AI's role in the evolving metaverse landscape.





## BOOK CHAPTER PUBLICATION

Ms. Vineeta Chauhan, Dr. Jaydeep Chakravorty, Faculty in Electrical Engineering Department, IITE, Book Chapter titled "Smart cities data indicator-based cyber threats detection using bio-inspired artificial algae algorithm" has been published in Scopus as "Handbook of Research on AI-Based Technologies and Applications in the Era of the Metaverse, 2023."

## PAPER PUBLICATION

Dr. Dhiren R. Patel, Assistant Professor, IITE, presented a paper titled "Revolutionizing Precision Manufacturing: A Comprehensive Review of Machine Vision Techniques for Measuring Machining Parameters" at the International Conference on Functional Materials for Energy and Manufacturing (ICFMEM-2023) held at Pallavan College of Engineering, Kanchipuram, India on July 26, 2023, with the joint participation of RanBal Research Institute, India, SET School, Khulna University, Bangladesh and Nişantaşı University, Turkey.



## GOLD MEDAL

Ms. Dharinee Joshi achieved Gold Medal, 1<sup>st</sup> Place, in Junior Category in Association of Powerlifting Association of Gujarat Held At Vastral, Ahmedabad on 20/8/23.



## PAPER PUBLICATION

Dr. Parul Shah, Assistant Professor, IIMS, want to share my recent achievement i.e. my one research paper "Managing Menstrual Waste in India: Overcoming Challenges with Effective Solutions" has been accepted in European Chemical Bulletin. Volume 12, Special Issue-6, 2023.



## CERTIFICATE

Mrs. Vaishali Patel, Assistant Professor, IICT, has received the certificate of reviewing the research paper in "Asian Journal of Research in Computer Science".



## PAPER PUBLICATION

Dr. Rachna Patel, Assistant Professor, IIMS published a paper in UGC Care Approved Group II Journal with her Ph.D Scholar Mr. Rajesh Pandita.



## IPRs

ICSII invited proposals for providing IPR support to innovative PoC and StartUps under SSIP grant. The ICSII IPRSC (Intellectual Property Rights Scrutiny Committee) evaluated the applications technically and also worked on the legal compliance of the proposed IPRs.

The following Innovations have been taken forward for technical drafting (Titles undisclosed till FER stage/ Grant of IPR) under Student StartUp and Innovation Policy 2.0:

Sr.	Name of lead Innovator	Title	Type
1	<a href="#">Disha Parekh</a>	*Undisclosed till FER/Grant	IPR
2	<a href="#">Monil Salot</a>	*Undisclosed till FER/Grant	IPR
3	<a href="#">Monil Salot</a>	*Undisclosed till FER/Grant	IPR
4	<a href="#">Vishvarajsinh Gohil</a>	*Undisclosed till FER/Grant	IPR
5	<a href="#">Gaurang Dudhat</a>	*Undisclosed till FER/Grant	IPR
6	<a href="#">Parth Panchal</a>	*Undisclosed till FER/Grant	IPR
7	<a href="#">Yogendrasinh Chitroda</a>	*Undisclosed till FER/Grant	IPR
8	<a href="#">Tirth Panchal</a>	*Undisclosed till FER/Grant	IPR
9	<a href="#">Dhruv Suthar</a>	*Undisclosed till FER/Grant	IPR
10	<a href="#">Divyesh Joshi</a>	*Undisclosed till FER/Grant	IPR
11	<a href="#">Khush Patel</a>	*Undisclosed till FER/Grant	IPR

## STUDENT ACHIEVEMENTS

Two students of IIPR, 2nd semester. Mr. Ajinkya Bhambare and Vivek Sharma got selected & completed 'Annual Training Camp' organised by National Cadet Corps at '1 Gujarat ARTY BTY NCC Ahmedabad' from 26/07/2023 to 04/08/2023.



Students of Arch dept, IDEA, exhibited their work of Skill module - 2, at Wardha house on 18 August 2023. Wardha House is a workshop cum exhibition space designed and executed by the students of the arch dept.



ICSII presents the Startup Idea Repository, a game-changer in the startup culture at Indus! Designed to combat various issues, this comprehensive repository offers a curated collection of innovative startup ideas. Say goodbye to information overload and hello to reliable, high-quality concepts! Whether you're an aspiring entrepreneur or an investor seeking the next big thing, our repository is your go-to resource. Experience the power of collaboration and make informed decisions with confidence. Join ICSII's movement today and revolutionize the way startups thrive in the digital era!



PHOTOGRAPHS TAKEN BY ARCHITECTURE STUDENTS



## JUST WALK

मुश्किल सा सफर है पर बीतेगा जरूर,  
ज़िन्दगी है,  
शायद तुम्हारा सफर कल किसी और की हिम्मत बने,  
बस चलते रहना....  
रास्ता उबड़ खाबड़ ही सही,  
कांटे कंकड़ भी सही,  
मुस्कान को अपना गहना बना कर,  
बस चलते रहना....  
काफी ठेहराव आएंगे,  
रास्ता भी नजर नहीं आएगा,  
चलते रहना है....  
रात अंधेरी ही सही,  
डरावनी भी सही,  
पर अपने आपको मजबूत बना कर,  
उजाले की आस में,  
चलते रहना....  
कई मुसाफिर मिलेंगे,  
कुछ से हम सीखेंगे  
कुछ हमें सिखायेंगे....  
पर हमें चलते रहना है....  
पर हमें चलते रहना है....



*Dr. Nikita Gadani*



## KUDOS...!

“

*Congratulations*

**Ms. Hinal Shah, EL. IITE**

for receiving her Ph.D notification entitled  
“Implementation of New Protection  
Scheme for Interconnected Network  
with Renewable Energy Sources”  
under the guidance of  
Dr. Jaydeep Chakravorty ”

“

*Congratulations*

**Ms. Vineeta Chauhan, EL. IITE**

for receiving her Ph.D notification entitled  
“Multi Objective Optimal Power Flow Problems  
Under the Influence of Distributed  
Generation Scenario”.  
under the guidance of  
Dr. Jaydeep Chakravorty ”

## ICSII

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Green Campus Transportation:**  
Establish an electric scooter or bicycle sharing service exclusively for university campuses. Provide affordable and eco-friendly transportation options for students to navigate between classes, dorms, and off-campus locations while reducing the reliance on traditional fossil fuel vehicles.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Study Materials:**  
Develop a platform or subscription service that provides university students with access to digital textbooks, e-books, and study materials. Reduce the demand for printed materials and promote sustainable practices in the academic community. Also, linking free e-books from IU library can be considered.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Green Campus Solutions:**  
Create a startup that offers sustainable solution to campus, such as implementing solar energy systems, rainwater harvesting, waste management programs, and energy-efficient technologies. Help universities reduce their environmental footprint while saving costs in the long run.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Renewable Energy Awareness Campaign:**  
Launch a startup that raises awareness about renewable energy and promotes its adoption on university campuses. Develop educational campaigns, host workshops, and offer consulting services to universities to help them transition to renewable energy sources, such as solar or wind power.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Dorm Room Essentials:**  
Create a startup that offers sustainable and eco-friendly dorm room essentials such as bedding, furniture, and storage solutions made from recycled materials or sustainable sources. Provide students with affordable and stylish options that align with their values.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Transportation App:**  
Develop a mobile app that integrates public transportation information, carpooling, and bike-sharing services to encourage sustainable commuting for university students. Provide real-time updates, route suggestions, and incentives for choosing eco-friendly transportation options.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Green Campus Waste Management:**  
Establish a waste management startup that focuses on implementing efficient recycling and composting systems on university campuses. Offer consulting services, waste collection, and educational programs to help campuses achieve their sustainability goals.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Online Sustainable Marketplace:**  
Create an online marketplace specifically for sustainable and eco-friendly products made by local artisans and small businesses. Provide a platform for university students to discover and purchase a wide range of sustainable goods, supporting local economies and reducing carbon footprints.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Dorm Room Essentials:**  
Create a startup that offers sustainable and eco-friendly dorm room essentials such as bedding, furniture, and storage solutions made from recycled materials or sustainable sources. Provide students with affordable and stylish options that align with their values.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Student Housing:**  
Create a startup that offers sustainable and affordable student housing solutions near university campuses. Design and construct energy-efficient, eco-friendly dormitories or apartments that incorporate renewable energy systems, rainwater harvesting, and waste management practices. Provide a comfortable and environmentally conscious living space for students, addressing the increasing demand for sustainable housing options.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Transportation App:**  
Develop a mobile app that integrates public transportation information, carpooling, and bike-sharing services to encourage sustainable commuting for university students. Provide real-time updates, route suggestions, and incentives for choosing eco-friendly transportation options.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Food Vending Machines:**  
Design and deploy vending machines on university campuses that offer healthy, organic, and sustainably sourced food options. Utilize smart technologies to track inventory, reduce food waste, and provide convenient access to nutritious meals for students.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Sustainable Event Planning:**  
Start an event planning company focused on organizing sustainable and eco-friendly events for universities, such as conferences, seminars, and fundraisers. Promote environmentally conscious practices, such as using compostable materials, reducing waste, and sourcing from local sustainable vendors.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Green Building Facade Retrofitting:**  
Create a startup that specializes in retrofitting existing buildings with green facades, incorporating vertical gardens and plant installations to enhance aesthetics and improve sustainability. Develop cost-effective modular systems that can be easily installed on building exteriors, providing insulation, reducing energy consumption, and improving air quality.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Food Waste Reduction App:**  
Design a mobile app that connects university students with local food establishments, grocery stores, and farmers market to help reduce food waste. The app can offer discounted prices on surplus food items close to their expiration dates, helping both students and businesses minimize waste.

   
www.icsii.indus.ac.in

**ICSII StartUp Idea Repository**  
Theme of the month: Sustainability

**Campus Sustainability Education Platform:**  
Create an online learning platform that offers courses, workshops, and resources to educate university students about sustainability and environmental conservation. Collaborate with experts and organizations to provide valuable content and inspire students to make sustainable choices.

   
www.icsii.indus.ac.in

FOLLOW US



ICSII is on Instagram as icsii\_indus.



ICSII is on Telegram as startupaticsii



**Dr. Dipti Sethi – “A TRUE INSPIRATION”**

As you visit the 4th floor at Bhanwar Building, Indus University, you will come across a seemingly peaceful and a beautifully calm face....she is none other than, a soon to be septuagenarian - Dr. Dipti Sethi.

Madam is a veteran in Academics and an expert in the field of educating Human Resource Specialization subjects. Her areas of expertise include - “Organization Behaviour & Design”, “Training and Development”, “Organization Development & Change Management” & “Performance Management” & others .

A mentor, trainer, guide, and coach for many, through her 25 years of academics, she has conducted many training programs and faculty development programmes. Dr. Dipti has been a founder member of a Self Help group 'Alchemy for Women' which facilitated transformation in women members' perspectives in dealing with their gender related issues.

Very few know about the undaunting spirit of Dr Dipti Sethi. She was a renowned swimmer and was nicknamed as “Mermaid of Gujarat” in her hey days by her well wishers... !. She pursued her career in academics, after having completed her doctoral studies(Ph.D) from the premier IIMA at Ahmedabad.

On one of her trips of a training program, lo & behold she met with a near fatal car accident and was in coma for more than 40 days and umpteen fractures in her right limbs. This set back did not deter her in living her life to the fullest.

Sethi ma'am fought all odds and bounced back with a more determined spirit. Physically she was impacted but that did not deter her from pursuing her passion be it academics or aquatics. She still swims like a dolphin and plans to complete Inter club swimming competitions. Dr. Dipti Sethi is an epitome of energy, someone who inspires not only her students but also her colleagues at IIMS.

‘Move on’ is her inspiring phrase...!“If you are down, try & move on... & if you are feeling good too.. MOVE ON.

Life is to be in movement every moment.... !!!



Interviewed by: Ms. Nisha Thankachen & Ms. Priya Singh Chauhan

**Team i360**

Ms. Nisha Thankachen  
Ms. Priya Singh Chauhan  
Ms. Mansi Mehta  
Dr. Monika Gupta  
Dr. Samir Patel  
Capt. Umang Jani

Mr. Monil Salot  
Dr. Daisy Kurien  
Ms. Meeta Agrawal  
Dr. Nikita Gadani  
Ms. Parita Shah  
Ms. Abheepsa Vyas