



TECHVRUTAM

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School of
Engineering

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**EVENTS OF
ACADEMIC EXCELLENCE**



Road Safety Audit

The Online Expert session on Road Safety Audit was held by the Civil Engineering Department of PP Savani University on July 25, 2023, from 1:30 PM to 3:30 PM. This session was organized for all semesters of Civil Engineering students and was coordinated by **Ms. Subhrata Biswal** and **Ms. Isha Patel**, under the guidance of **Dr. Niraj Shah**.

The poster for the 'ONLINE EXPERT SESSION ON ROAD SAFETY AUDIT' is a blue and green design. It features the PPSU logo at the top left, the website 'www.ppsu.ac.in' and social media icons at the top right, and the 'School of Engineering' logo. The event details include the date '25th July, 2023' and time '1.30 PM to 3.30 PM'. It lists the expert 'Prof. Rena Shukla' and coordinators 'Ms. Subhrata Biswal' and 'Ms. Isha Patel'. The chief patron is 'Dr. Parag Sanghani' and the patron is 'Dr. Niraj Shah'. A Zoom meeting ID and passcode are also provided.

Opportunity in HVAC & R Industry

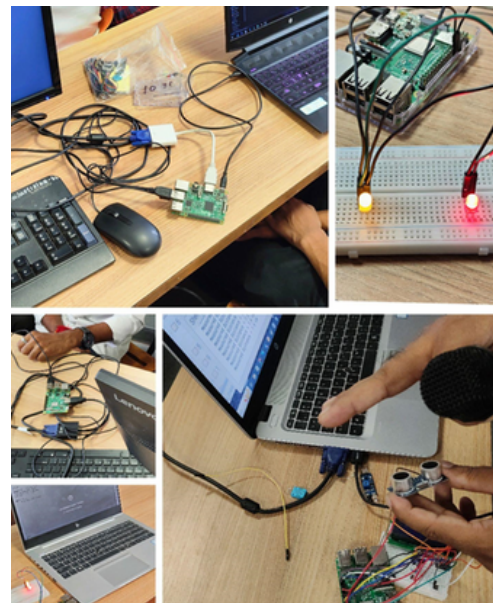
The Mechanical Engineering Department at P. P. Savani University held an expert session on 8th August 2023, featuring renowned expert **Mr. Rohit Dave**, former GSFC Ltd. Manager. The session, in collaboration with the Indian Society for Heating, Refrigerating & Air Conditioning Engineers (ISHRAE Surat Chapter), aimed to explore opportunities within the HVAC & R Industry. The session was coordinated by **Mr. Chirag Desai** with **Dr. Niraj Shah** as the moderator.



The poster for the 'EXPERT SESSION ON OPPORTUNITIES IN HVAC & R INDUSTRY' is a blue and white design. It features the PPSU logo at the top left, the 'STUDENTS ISHRAE' logo at the top right, and the 'Mechanical Engineering Department' logo. The event details include the date 'Tuesday, 8th August, 2023' and time '11.00 am onwards'. It lists the expert 'MR. ROHIT DAVE', chief patron 'Dr. Parag Sanghani', patron 'Dr. Niraj Shah', and moderator 'Mr. Chirag Desai'. A background image shows HVAC equipment.

Workshop on Advanced IoT with a Focus on Raspberry Pi

The School Of Engineering (SOE) and the IoT team members, including **Mr. Abhijitsinh Parmar, Mr. Srikant Singh, Ms. Riddhi Desai** and **Ms. Meenakshi Kashyap**, have collaborated to organize a workshop on "Advanced IoT with a Focus on Raspberry Pi." This workshop took place from September 11, 2023, till September 14, 2023.



Technex'23, IIT(BHU), Varanasi successfully conducted a hands-on workshop on the Internet of Things (IoT) for 182 students from B.Tech Semester-5 Computer Engineering, Computer Science and Engineering & Information Technology and Exngineering. This valuable training equipped students with in-demand skills like Python programming and Raspberry Pi development. Through engaging exercises and real-world projects, participants gained practical experience applying IoT concepts.

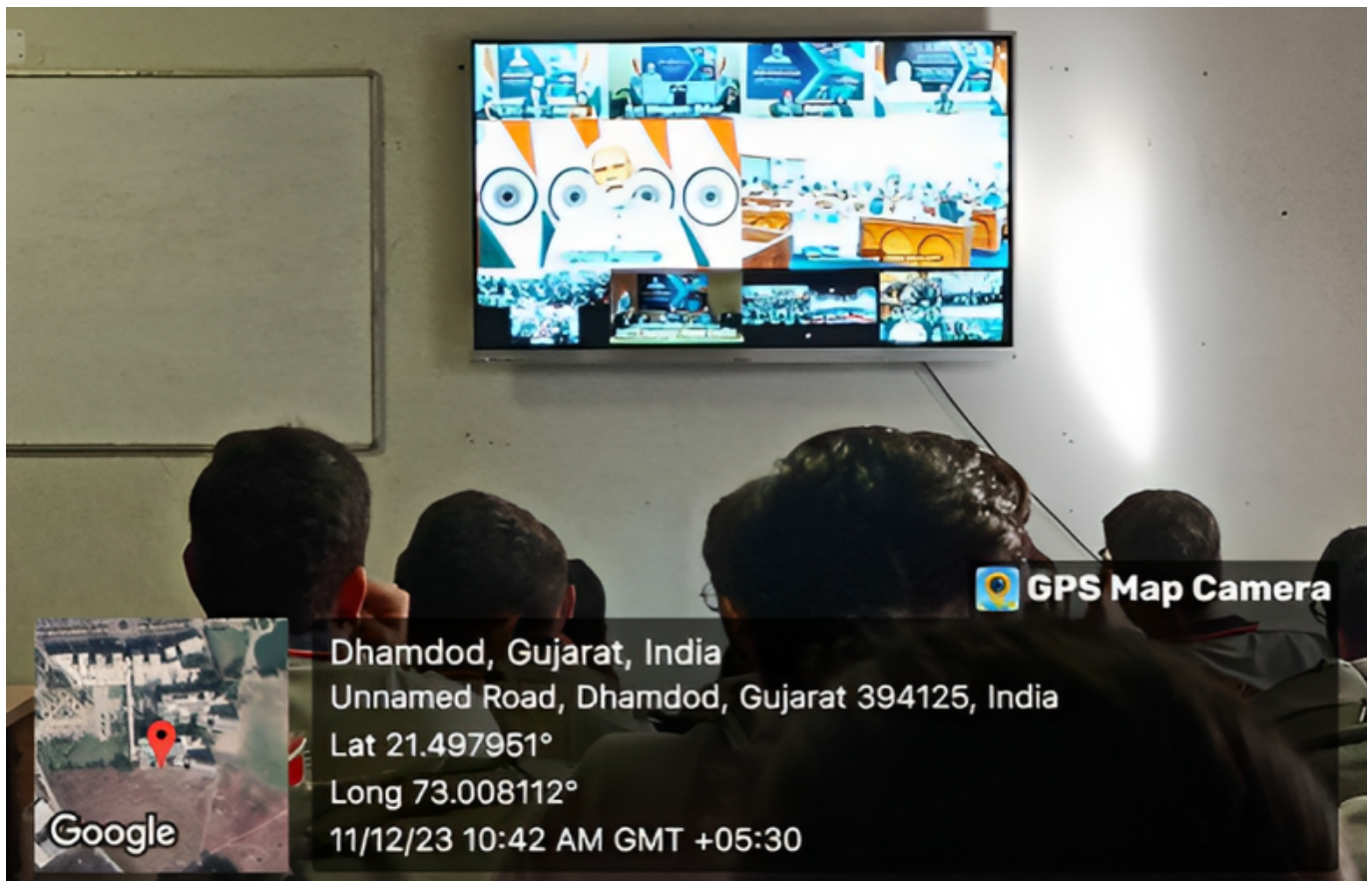


The workshop fulfilled its key objectives of empowering the next generation of tech talent with proficiency in this cutting-edge field. The enthusiastic response highlights the growing relevance of oT skills. By facilitating this impactful upskilling, Technex'23 and IIT(BHU) are equipping young minds to shape the future of technology.



Launch of Vikshit Bharat 2047

The launch of Vikshit Bharat 2047 for students was organized by the School Of Engineering (SOE), under IEC, PPSU. During the virtual event on 11th December 2023, Prime Minister of India, Honourable Narendra Modi, addressed the country online. **Dr. Vinit Gupta, Mr. Prakhar Dixit, and Mr. VinayKumar Pathak** coordinated the event, which was specifically attended by the students of the School Of Engineering (SOE).



Codeathon



On October 20-21, 2023, the School Of Engineering hosted an innovative Codeathon event for students. This intensive coding competition provided an opportunity for participants to demonstrate their programming abilities, collaboration, and ingenuity. During the Codeathon, teams of students worked diligently over the weekend to develop technological solutions for real-world problems.

By the conclusion of the event, groups presented their projects before a panel of judges from the engineering faculty. The Codeathon allowed students to gain hands-on experience and showcase their skills under tight deadlines, much like professional software engineers. Events like these further the School Of Engineering 'S mission to foster critical thinking and interdisciplinary teamwork among the next generation of leaders in technology and innovation.





INDUSTRY ACADEMIA'S MEET

Industrial Visit

The Mechanical and Automobile Engineering Department organized an enriching one-day industrial visit to Blue Star Private Limited in Dadar and Nagar Haveli. This immersive opportunity afforded students invaluable firsthand insights into the complex operations and advanced cooling and refrigeration technologies leveraged by this prominent industry leader. Expertly coordinated by **Mr. Amir Patel, Dr. Rahul Sinha** and **Dr. Rakesh Kumar**, the visit provided students with an up-close look at real-world applications of concepts learned in the classroom, sparking their intellectual curiosity while expanding their technical perspectives. By directly engaging with cutting-edge practices, students gained practical knowledge to complement their academic studies. Overall, the experiential learning visit was an impactful academic endeavor that deepened technical acumen.





The students had the opportunity to directly interact with professionals from the industry during the visit, which enabled them to discover the latest technologies and understand how a modern manufacturing facility operates. This educational experience

was not only memorable but also enlightening, as it broadened their knowledge and sparked a strong interest in the ever-changing industrial sector.



FACULTY PARTICIPATION



Dr. Niraj Shah participated in a five-day online short course on "Sustainable and Durable Green Concrete - Future and Applications," hosted by the Department of Civil Engineering at Dr B R Ambedkar National Institute of Technology in



Jalandhar from December 18-22, 2023. Through this intensive training program, **Dr. Shah** gained valuable insight into cutting-edge research and innovations in environmentally-friendly concrete technology and its real-world applications. His attendance at this prestigious institute's short course demonstrates **Dr. Shah's** commitment to furthering his expertise in sustainable construction practices.

Ms. Tasneem Kagzi has demonstrated expertise in cloud infrastructure by participating in a prestigious national faculty development program. Hosted by the Department of Computer Science & Engineering at JNTUK University College of Engineering Narasaraopet in Andhra Pradesh, this intensive one-week program was held from August of 21st to 25th, 2023. Organized in collaboration with Brain vision Solutions India Pvt. Ltd and the All-India Council for Technical Education (AICTE), the program offered by **Ms. Tasneem Kagzi** valuable insight into AWS cloud solutions. Her successful participation in this selective training program reflects her dedication to staying at the forefront of her field and expanding her knowledge of cutting-edge technologies.

FACULTY ACHIEVEMENT



The 11th IEEE Humanitarian Technology Conference, held from October 16 to 18, 2023 at Marwadi University in Rajkot, India, benefited greatly from the contributions of reviewer **Mr. Ravirajsinh Chauhan**. Organized by the IEEE Gujarat Section, this academic conference was enriched by **Mr. Ravirajsinh Chauhan** scholarly insights during the review process. His discerning feedback helped ensure the quality of presentations and papers accepted to this prestigious event. **Mr. Ravirajsinh Chauhan** service as a reviewer made a significant impact on the 11th IEEE Humanitarian Technology Conference.



Mr. Jigesh Mehta was honored with the Best Research Award 2023 at the renowned World Intellectual Property Right Conclave 2023 in New Delhi on October 6, 2023. The event, organized by Wegrow Private Ltd., provided a prestigious platform for showcasing his research work. This recognition not only highlights **Mr. Jigesh Mehta** exceptional achievements but also serves as a proud moment for P P SAVANI UNIVERSITY, as he represented the institution on the global stage.



The manuscript titled "Investigating the Influence of Parameters on the Performance of Nanofiltration Membrane Constructed via Phase Change Method" was thoroughly reviewed by **Mr. Jigesh Mehta** for the Iranian Journal of Chemistry and Chemical Engineering. The editor acknowledges and appreciates Mr. Jigesh Mehta valuable contribution as a reviewer.

Mr. Jigesh Mehta has reviewed the Manuscript in the Journal "Asian Journal of Chemical Sciences".



By becoming a member of the editorial board in ISRDO Publishing Journals, **Mr. Jigesh Mehta** has made commendable contributions.

Ms. Barkha Mehta's appointment as a member of the editorial board at ISRDO Publishing Journals has been confirmed.

On October 23, 2023, **Dr. Vinit Gupta**, an Associate Professor in the Mechanical Engineering Department at the School Of Engineering (SOE), in P P Savani University, gave a virtual guest lecture titled "Kinematics, Dynamics, and Control of Serial Robotic Manipulators.". This lecture was delivered to the Department of Robotics and Artificial Intelligence at Priyadarshini College of Engineering in Nagpur, India.



**RESEARCH
ERUDITE**

During the ICMME-2023 conference, **Dr. Vinit Gupta**, an Associate Professor in the Mechanical Engineering Department, actively took part in the event that was collaboratively organized by the Department of Mechanical Engineering at GLA University in Mathura, India, and UFRGS in Porto Alegre, Brazil.

The conference took place on October 13 and 14, 2023, where Dr. Gupta presented a research paper titled "Experimental investigation for enhancement in thermophysical properties of refrigerant lubrication oil using CuO-based nanosuspension." The valuable findings of this study will be published in Materials Today Proceedings, a reputable conference proceedings indexed by Scopus.



The Patent Office, Government of India, has registered a design patent under the Design No: 393518-001 on August 8, 2023, for the "ADJUSTABLE ROTAVATOR CHASSIS WELDING FIXTURE." The inventors of this patent are **Mr. Amit Dodiya, Mr. Chirag .R. Desai, Dr. Rakeshkumar, Dr. Parag Sanghani, Dr. Niraj Shah,** and **Dr. Rahul Sinha.**

Design patent number .6322319 has been awarded to a Chemical reaction vessel from the UK. This vessel stands out due to its distinctive stirring mechanism. The inventors behind this innovative design are **Dr. Deepak Kohli, Dr. Deepak Panwar, Dr. Balraj Tudu** and **Dr. Bhupinder Ken.**

A design patent for a "Portable solar powered water purifier" has been issued in India with the design number 395516-001. The inventors, **Dr. Deepak Kohli, Dr. Deepak Panwar,** and **Dr. Balraj Tudu,** are credited with this achievement.



STUDENT'S ACHIEVMENT



From July 20, 2023, to August 07, 2023, the School Of Engineering students had the opportunity to participate in and successfully complete the online training course on "Overview of Space Science and Technology" conducted by the Indian Institute of Remote Sensing, ISRO Dehradun, as part of the ISRO START Programme.



STUDENT THINKS



SEASONS OR LEASONS?



Hasti Rupareliya
22SE02IT035
Btech. IT Sem 4

*Seasons, great teachers they are,
Lessons woven within, near and far.
As rain cascades, in the realm of gray,
The lesson of release, it gently conveys.*

*In the rainy season's downpour, we find,
Permission to let our hearts unbind.
Cry out the burdens, heavy and deep,
Like clouds bursting, finding solace in weep.*

*Summer arrives, with scorching embrace,
Strength it imparts, a relentless chase.
Under the blazing sun, we learn to stand,
For what is right, with courage in hand.*

*Winters, a season of sweetness untold,
A delicate touch, love's story unfold.
In cold's embrace, care whispers its song,
The warmth of affection, enduring and strong.*

*Spring paints the world with colors anew,
A season of beginnings, fresh and true.
Just as trees adorn themselves with leaves,
Blossoming flowers, as the heart perceives.*

*From the fall's embrace, a rebirth springs,
Self-love unfurls, as the heart sings.
Embracing growth, shedding old debris,
In nature's cycle, a lesson to see.*

*So let the seasons guide us on our way,
Each teaching wisdom, day by day.
In rain, strength, sweetness, and new starts,
May we embrace the lessons in our hearts.*



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