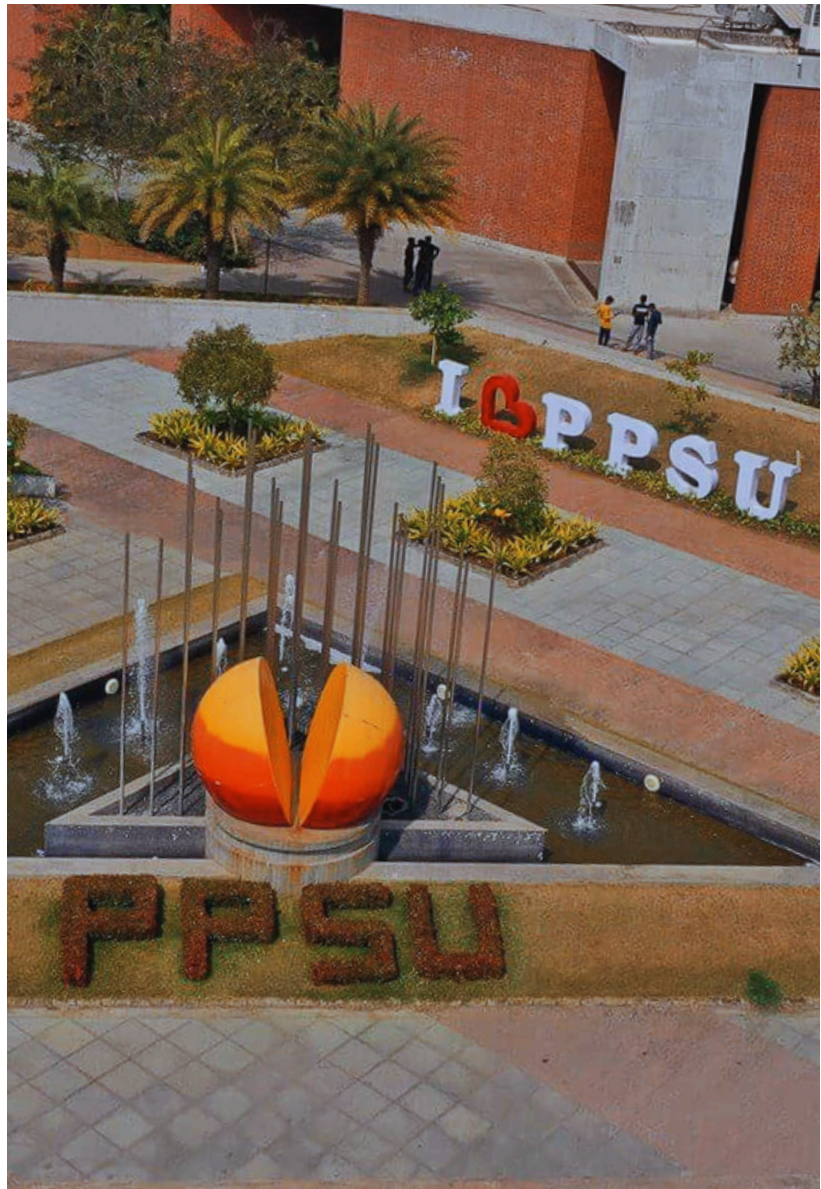




# TECH VRUTAM



**JULY 2024**

# Table Of Contents

<b>EVENT OF ACADEMIC EXCELLENCE</b>	<b>01</b>
<b>INDUSTRY-ACADEMIA MEET</b>	<b>03</b>
<b>SPORTS EVENTS</b>	<b>06</b>
<hr/>	
<b>FACULTY PARTICIPATION</b>	<b>09</b>
<b>FACULTY ACHIEVEMENT</b>	<b>12</b>
<b>RESEARCH ERUDITE</b>	<b>14</b>
<hr/>	
<b>STUDENTS' ACHIEVEMENT</b>	<b>18</b>
<b>STUDENT THINKS</b>	<b>19</b>
<b>FACULTY THINKS</b>	<b>21</b>
<hr/>	





EVENT OF ACADEMIC  
EXCELLENCE



# Celebrating World IP Day



P P Savani University, School of Engineering, under IEC organized an event for **Celebration of World IP Day** for students. **Dr. Rohit Khedkar**, Associate Professor gave an expert lecture on intellectual property and its protection methods. The event was attended by students of School of Engineering on April 26, 2024 and was coordinated by **Dr. Vinit Gupta** and **Mr. Vinay Kumar Pathak**.

## Expert talk on “Introduction to NoSQL and MongoDB”

**Mr. Ankur Shah**, Assistant Professor, School of Engineering delivered an informative expert talk on **“Introduction to NoSQL and MongoDB”** on April 08, 2024 for fourth Semester students at C.U Shah Government College.





**INDUSTRY - ACADEMIA**

**MEET**



# Collaborative Milestone : PPSU Signs MOU with Industry Innovators

P P Savani University has signed a Memorandum of Understanding (MOU) with Altitude Associates and Aeon Post Tension based at Surat to foster collaboration between industry and academia in Civil Engineering Dep, SoE which was coordinated by **Ms. Isha Patel**.

The MOU aims to:

- Promote joint research initiatives
- Facilitate knowledge exchange
- Enhance educational opportunities for students
- Address industry challenges through innovative solutions



This partnership represents a significant milestone in our commitment to advancing the Civil engineering industry and creating impactful outcomes through collaborative efforts.





# PPSU Hosts Voter Education Event for First-Time Voters

NSS, PPSU with School of Engineering and Election Commission of India, organized an Educate first-time voter students in collaboration with government authorities from the Election Commission of India Surat, event was Organized on December 12th, 2023. In this event more than 280 students were participated. NSS, School of Engineering coordinator **Mr. Rohit Kumar Awasthi** (Assistant Professor) with Central NSS Program Officer Mr. Pranay Prason and Mrs. Kanchan Ingle welcomed all government staff members and felicitated them.

Coordinators of this event were **Mr. Rohit Kumar Awasthi, Mr. Keval Jariwala, Dr. Hiren Lekhadiya** and **Dr. Niketa Savaliya**. The event aimed to educate first-time voter students on how to register on the Government of India Election portal. Through informative sessions and practical demonstrations, students were guided about the registration process step by step. Government authorities provided valuable insights and assistance throughout the event, ensuring students gained a thorough understanding of their voting rights and responsibilities.



# SPORTS EVENTS





**JULY 2024**

# **DHANVANTARY SPORTS LEAGUE – 2024**

School of Engineering, Boys' team actively participated in **DHANVANTARY SPORTS LEAGUE - 2024**, Event was Organized by Shree Dhanvantary College Of Engineering And Technology during April 01, 2024 to April 04, 2024. SOE Boys team were the got 3rd position in the Tournament and awarded with the Trophy. The team defeated 03 teams during the journey of the Tournament. This was coordinated by **Mr. Rohit**



**Awasthi, Mr. Keval Jariwala, Dr. Hiren Lekhadiya, and Dr. Niketa Savaliya** Assistant Professors, School Of Engineering, P.P. Savani University.



# **KABADDI TOURNAMENT 2023-24**

School of Engineering, Boys' team actively participated in University Level **Kabaddi Tournament 2023-24** during April 09, 2024 to April 10, 2024. SOE Boys' team were the Runner-up in the Intercollegiate Kabaddi Tournament 2023-24 and awarded with the Trophy. The team defeated 03 teams during the journey of the Tournament.



This tournament 2023-24" was organized by School of Nursing , in association with Sports Department P P Savani University on 09/04/2024 To 10/04/2024. This was coordinated by **Mr. Rohit Awasthi, Mr. Keval Jariwala, Dr. Hiren Lekhadiya, and Dr. Niketa Savaliya** Assistant Professors, School Of Engineering, P.P. Savani University.





**FACULTY  
PARTICIPATION**



**Mr. Vinaykumar Pathak B**, Assistant Professor, Computer Engineering Department participated in a Faculty Development Program on "Computer Vision & Pattern Recognition using MATLAB," organized by the Department of Computer Science at Christ (Deemed to be University), Bangalore, from April 1 to April 5, 2024.

**Ms. Subhashini.K**, Assistant Professor, Computer Engineering Department has successfully completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai from May 20, 2024 to May 30, 2024.

**Mr. Abhinav Kashyap**, Assistant Professor, Mechanical Engineering Department, School of Engineering participated in 5 days FDP on "Industrial Internet of Things (IIOT)" conducted by Geetanjali Institute of Technical Studies, Udaipur Rajasthan from June 03, 2024, to June 07, 2024.

**Ms. Subhashini K.** Assistant Professor, Computer Engineering Department has successfully completed the FDP/Training Program on :

- "Advance Tools and Techniques" for Research Methodology from June 03, 2024 to June 12, 2024 organised by Research Foundation of India & RFI-CARE.
- "PYTHON" organized by Star International Foundation for Research and Education from March 19, 2024 to March 25, 2024.

**Ms. Isha Patel**, Assistant Professor, Civil Engineering Department participated in

- 6 days FDP Program on "Emerging Technologies in Civil Engineering – 2K24" conducted by Kongunadu college of Engineering & Technology, Department of Civil Engineering from 11 March, 2024, to 16 March, 2024.
- 5 days FDP Program on "Sustainable Advances in Civil Engineering: Exploring Innovative and Contemporary Research Areas" conducted by OPJU University of steel technology and management, Department of Civil Engineering from 01 April, 2024 to 05 April, 2024.
- 5 days FDP Program on "RECENT ADVANCES IN STRUCTURAL ENGINEERING" conducted by Hindustan Institute of Technology & Science, Department of Civil Engineering from 06 May, 2024, to 10 May, 2024.



**Ms. Isha Patel**, Assistant Professor, Civil Engineering Department participated in Short- term online course on “PERFORMANCE BASED SEISMIC DESIGN OF BUILDINGS” conducted by IIT Roorkee, Department of Earthquake Engineering from January 27, 2024, to 04 May, 2024.

**Ms. Isha Patel**, Assistant Professor, Civil Engineering Department participated in an online Webinar on “3D Printed Concrete: An Introduction” conducted by Indian Concrete Institute, Coimbatore Centre, Tamil Nadu from 25 April, 2024.

**Mr. Vijay Patil**, Assistant Professor, Computer Engineering Department participated in a faculty development program on “Computer vision & pattern Recognition using MATLAB” organized by the Department of Computer Science CHRIST, Bangalore during April 01,2024 to April 05,2024.

**Mr. Paresh Mistry** , Assistant Professor, Civil Engineering Department participated in 5 days FDP Program on “RECENT ADVANCES IN STRUCTURAL ENGINEERING” conducted by Hindustan institute of technology &science, Department of Civil Engineering from 06 May, 2024, to 10 May, 2024.

**Mr. Robin Hojiwala**, Assistant Professor, Computer Engineering Department School of Engineering participated in faculty development programs on

- “Computer vision & pattern Recognition using MATLAB” organized by the Department of Computer Science CHRIST, Bangalore during April 01,2024 to April 05,2024.
- “PYTHON” organized by Star International Foundation for Research and Education from March 19,2024 to March 25,2024.

**Dr. Shruti Suman**, Associate Professor, Computer Engineering Department, School of Engineering participated in 6 days FDP on “Recent Trends in Embedded Systems & IoT (RTESIoT-2024)” from 27.05.2024 to 1-6.2024, at GMR Institute of Technology, Andhra Pradesh in collaboration with Sri Sairam Institute of Technology, Chennai.

# FACULTY ACHIIEVEMENT





**Mrs. Subhashini K.** from School of Engineering has been selected as a Reviewer for the well-reputed journal Advances in Science, Technology and Engineering Systems Journal. This decision was made after a thorough evaluation of her research experience and scientific vision. Her name is now successfully registered under the subject codes CAI, CHA, CIS, CSE, and CSI

**Mr. Chirag Desai** from School of Engineering has successfully coordinated the online program course on Exploration of the Solar System organized by the Indian Institute of Remote Sensing, ISRO Dehradun under the ISRO START Programme from April 24, 2024, to May 10, 2024.

**Ms. Maulika Patel** from School of Engineering has presented paper under title “Prostate Cancer Gleason Grading: A Review on Deep Learning Approaches for Recognizing” in the conference “International Conference on Multidisciplinary Approach in Engineering, Technology and Management for Sustainable Development: A Roadmap for Viksit Bharat 2047 (ICMAETM-24) scheduled on 24th and 25th May 2024 at Sankalchand Patel University, Visnagar.

**Mr. Ankur Narendrabhai Shah** from Computer Engineering Department, School of Engineering at P P Savani University has conducted an expert talk at CUSP, Surendranagar on April 08, 2024.

**Mr. Ankur Narendrabhai Shah** from Computer Engineering Department, School of Engineering at P P Savani University was granted patent titled “DEEP SENTIMENT ANALYSIS SYSTEM FOR IDENTIFYING SENTIMENTS IN SOCIAL MEDIA CONTENT” from the IPR Office, India

**Dr. Vinit Gupta** from Mechanical Engineering Department, School of Engineering at P. P. Savani University was invited as an external referee for evaluating the Ph.D thesis of Mr. Ramesh Kumar Rawal submitted at Oriental University, Indore.

**Mr. Ankur Narendrabhai Shah** from Computer Engineering Department, School of Engineering at P P Savani University has conducted an expert talk at PPSU on dotnet subject by Mr. G. D. Parmar on Mar 30, 2024.

**Mr. Jigesh Mehta** from Chemical Engineering Department, School of Engineering at P P Savani University has been appointed as Co-opted Governing Council Member (GC Member) Student Representative, QCFl, Ankleshwar.



RESEARCH ERUDITE



**Mr. Vinay Pathak** has authored a research paper titled “Image Color Balance with Laplacian and Gaussian Pyramid (CBLGP) Algorithm.” This paper was published in Volume 08, of the International Journal of Scientific Research in Engineering and Management, on March 03, 2024.

**Mr. Robin Hojiwala** has published a research paper entitled “Implementation of Data Analysis Algorithm using Julia” in International Journal of Novel Research & Development(IJNRD) on May 05,2023.

**Dr. Ranjit Kumar Debury** has successfully published the research paper on the title “Growth of dual-phase high entropy alloy films using thermal vapour deposition under the international journal of Material Characterization on 2024 : 113998.

**Dr. Ranjit Kumar Dehury** has successfully published the research paper on the title “Experimental investigation of wetting characteristics in Cu-In alloy” in Materials Letters journal , on February 13, 2024.

**Mrs. Subhashini K., Ms. Mansi Kotatiya, Ms. Inderjeet Kaur, Mrs. Urvashi Krunal, Mr. Krunal Rajeshbhai, and Mrs. Ekta Patel** have successfully published a patent for their innovation titled “Design and Development of Joint Face Detection and Alignment Using Convolutional Network” on May 3, 2024.

**Dr. Parijat Saura, Mr. Datta Ashok Nalle, Dr. Deepak Kohli, Dr. Maddikera Kalyan Chakravarthi, Dr. Hardik Pathak, Sampath Kumar Y. R., Dr. T. Gopalakrishnan, and Dr. V. Kannan** have been granted the Indian certificate for their design application for a Seawater Pollution Monitor Device on April 18, 2024.

**Mr. Vijay Patil** has successfully published a research paper on the topic “Image Color balance with Laplacian and Gaussian Pyramid(CBLGP) algorithm” in the International journal of Scientific Research in Engineering & Management.



**Dr. Rahul Kumar, Dr. Vinit Gupta, Dr. Ranjit Kumar Dehury** of Mechanical Engineering Department, School of Engineering at P P Savani University in collaboration with external researchers have published a research paper on " Bending analysis of a porous functionally graded sandwich plate with a hole resting on an elastic foundation" in prestigious Acta Mechanica (A SCI Indexed Journal), (2024).

**Dr. Vinit Gupta, Dr. Ranjit Kumar Dehury, Dr. Rahul Kumar** of Mechanical Engineering Department, School of Engineering at P P Savani University in collaboration with external researchers have published a research paper on " Synthesis, characterization and thermophysical properties of PAG-Amine functionalized graphene quantum dots based nanosuspension" in prestigious Materials Letters (A SCI Indexed Journal), Volume 369 (2024)

**Dr. Ranjit Kumar Dehury, Dr. Vinit Gupta, Dr. Rahul Kumar** of Mechanical Engineering Department, School of Engineering at P P Savani University in collaboration with external researchers have published a research paper on " Elemental Influence on Oxidation Behaviour of Cantor-Based and Refractory High Entropy Alloys: a Critical Review" in prestigious Advanced Engineering Materials (A SCI Indexed Journal), Volume 26 (2024).

**Dr. Shruti Suman**, has published a research paper entitled "Analytical Modelling and Performance Characterization of Single Electron Transistor" in the International Journal of Electrical Systems, Volume 20, Issue 3s, p.p. 170-182, in May 2024. (ISSN: 1112-5209,DOI: <https://doi.org/10.52783/jes.1266>) (SCOPUS & WoS Indexed, SCIE).

**Dr. Rahul Kumar, Dr. Vinit Gupta, Dr. Ranjit Kumar Dehury** of Mechanical Engineering Department, School of Engineering at P P Savani University in collaboration with external researchers have published a research paper on " Bending analysis of a porous functionally graded sandwich plate with a hole resting on an elastic foundation" in prestigious Acta Mechanica (A SCI Indexed Journal), (2024)





**Dr. Shruti Suman**, has published a research paper entitled “Analytical Modelling and Performance Characterization of Hybrid SET-MOS” in the International Journal of Electrical Systems, Volume 20, Issue 3s, p.p. 205-216, in May 2024. (ISSN: 1112-5209, DOI: <https://doi.org/10.52783/jes.1272>) (SCOPUS & WoS Indexed, SCIE).

**Dr. Shruti Suman**, has published a research paper entitled “Monitoring and Detecting Plant Diseases Using Cloud-Based Internet of Things” in the International Journal of Electrical Systems, Volume 20, Issue 3s, p.p. 183-194, in May 2024. (ISSN: 1112-5209, DOI: <https://doi.org/10.52783/jes.1268>) (SCOPUS & WoS Indexed, SCIE).

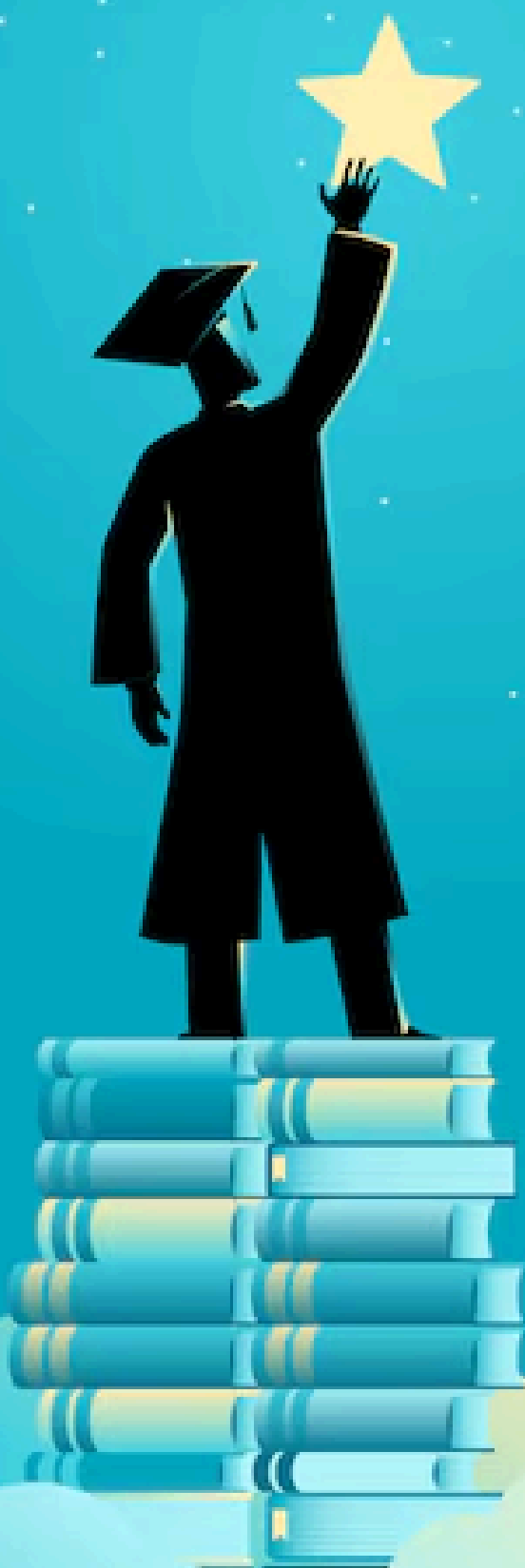
**Ms. Maulika Patel** along with co-Authors **Ms. Hemangini Patel, Mr. Mrugesh Patel, Mr. Aakash Gupta**, has successfully published a research paper entitled “Cloud Computing Security using Cryptography: safeguarding Government Secret Photo Files on Cloud Storage” in the International Journal of Novel Research & Development(IJNRD) on June 29,2024.

**Mr. Abhinav Kashyap** has published a paper “MATHEMATICAL ANALYSIS AND NON-LINEAR OPTIMIZATION OF EV BATTERY HEALTH USING FUZZY LOGIC AND NEURAL PUTING TECHNIQUES” published in Communications on Applied Nonlinear Analysis. ISSN: 1074-133XVol 31 No. 2s(2024).



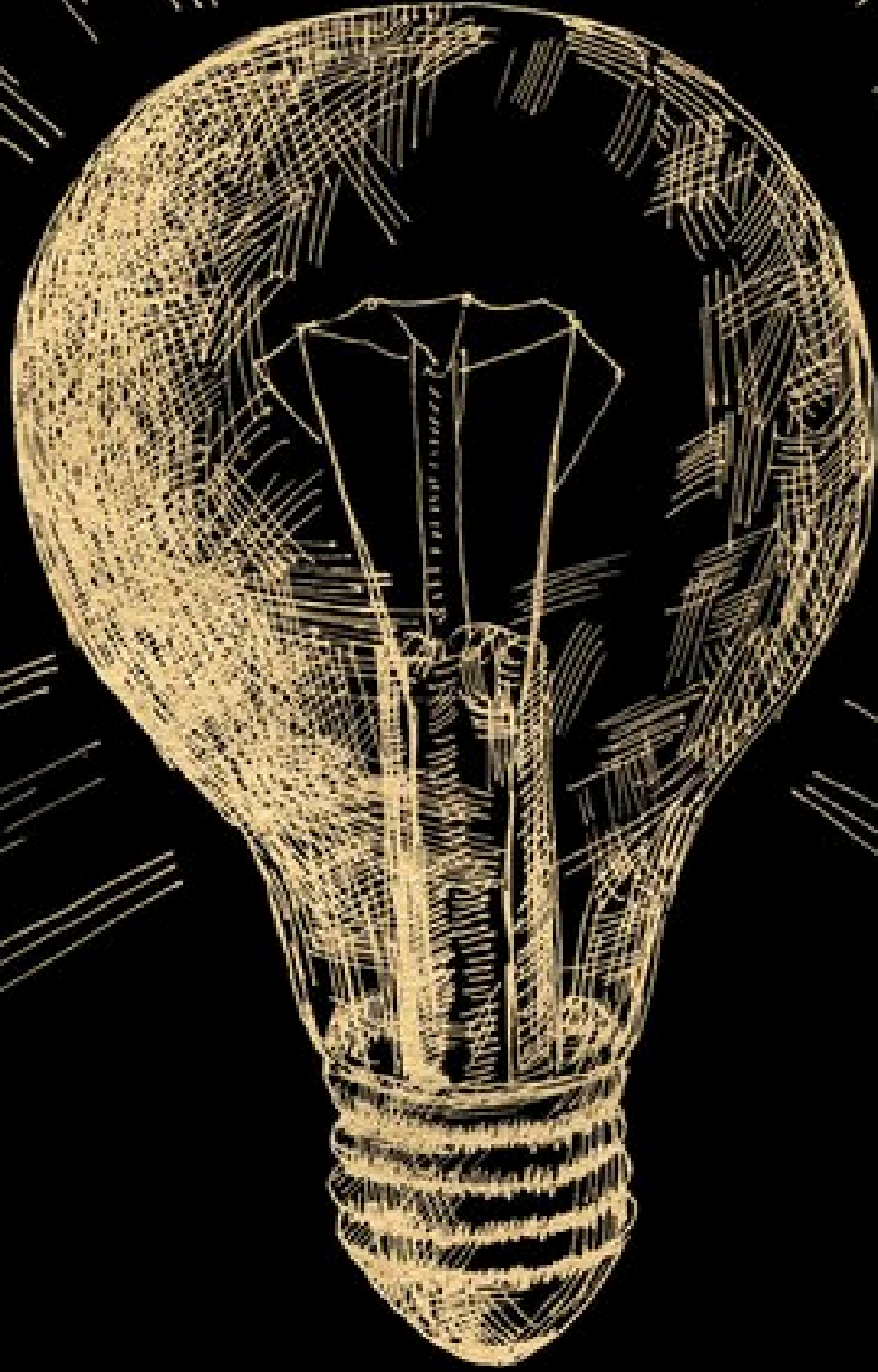


# STUDENTS' ACHIEVEMENT



**Mr. Henil Mangukiya & Mr. Ryan Mashavave** from the School of Engineering have completed an online program course on Exploration of the Solar System organized by the Indian Institute of Remote Sensing, ISRO Dehradun under the ISRO START Programme from April 24, 2024, to May 10, 2024.

# STUDENT THINKS



# जिंदगी एक सफ़र

“

जिंदगी एक सफ़र है, ढलना मुझे आता है,  
कोई साथ ना दे मेरा, चलना मुझे आता है।

हर आग से वाकिफ हूँ, जलना मुझे आता है,  
जन्म लेते वक्त रोए थे ना? बस उतना काफी है।  
कठिन घड़ी में मुस्कुराया करो, अभी बहुत उम्र बाकी है,  
आंसुओं को पसीने में ढाल के पी जाना, जब तक मंजिल ना मिले घर मत आना।

प्रयास लहरों जैसा होना चाहिए, पत्थर को काट के रेत होना चाहिए,  
सब्र रखने से सब ठीक हो जाएगा, अरे ये वक्त ही तो है बदल जाएगा।  
मन में नकारात्मक विचारों का आदर सत्कार नहीं करना चाहिए,  
आवाज़ चाहे जितनी भी धीमी हो, अल्फाज में वजन होना चाहिए।

मैंने एक रुपये में कमाल अमीरी देखी है,  
गुब्बारा, टॉफी, लड्डू, कंचा, इमली देखी है।  
तफ़लीकों से छुरी की तरह गुजर जाना,  
जो जिंदगी मक्खन ना लगे तो बतलाना।

जीवन में सिर्फ़ दो बातें पूर्ण सत्य हैं,  
एक जन्म, दूसरी मृत्यु।  
मैंने एक तीसरा सत्य खोज लिया,  
मेरा सपना और ख्वाब।

पहला मौका किस्मत देती है,  
पर दूसरा मौका बेशक काबिलियत ही देती है।  
बहुत नाराज़ रहते थे सितारे, मेरी मेहनत के आगे टूटे सारे,  
जब लाख परेशानियाँ हों मुझपे, तब करोड़ों का हौसला रखना आता है मुझे।

नींद बड़ी पुरानी है, ख्वाब नए लाने होंगे,  
लड़कट मर अंतिम श्वास तक, अन्यथा व्यर्थ है जीवन।  
थाली में सजा के मिले वो सफलता कैसी,  
बिना संघर्ष किए जो मिली वो मंजिल कैसी?

छोटी सी रात का छोटा सा फसाना है,  
अब तकदीर के हाथों से अपनी तकदीर बनानी है  
ध्यान रहे इस सफ़र में, आत्मा की आवाज़ सुनना,  
सच्चाई और प्रेम के मार्ग पर हमेशा चलते रहना।

व्यक्तित्व का मकसद है, खुद को संवारना आता है,  
जिंदगी एक सफ़र है, ढलना मुझे आता है।



**Yashvi Chovatiya**  
B.Tech CE  
21SE02CE006



# FACULTY THINKS



# Stranded at the Boundary

An identity begins a search for the self,  
when a nightmare is deeply felt;  
It iterates, in a childlike dwell,  
stood as a witness, observes nature well;  
From a realm of time, to the realm timeless,  
creativity unwraps its magic spells;  
A wind that goes to and fro,  
it slows, it circles, amid a heavenly glow;  
Centre of being, when merges with infinite flow,  
to a conscious presence, the universe unfolds;  
Aversions of being, aversions of knowing, comes face to face,  
the soul then craved for initial state;  
Temporal existence, temporary realised,  
to move back becomes a difficult plight;  
Craving or aversion, both were denied,  
transcend beyond them, claims an inner voice;  
The dream then ends, the identity restored,  
the false self overpowers the child in discourse.

---



**Dr. Vinit Gupta**  
Associate Professor,  
SoE

# **Fight Within**

The objective of Human's life is to become a successful person in society. We all expect continual growth. A step forward is always a milestone achieved.

## **How to be successful?**

There is no magic mantra to be successful. Often, we trap ourselves in to someone's shoes by following them from head to toe. This is insane. We all are beautiful creature of almighty with unique individuality. The three I's; insight, innovate and improvement always complete I. We should believe in ourselves. We should analyze our capabilities first. If anything falls within boundary we should go for innovation and then continuous improvement. We can give a try to stretch our capabilities beyond set boundaries but to certain limit where it does not frustrate us. A fish should not judge its capabilities by climbing a tree and same holds for monkey by swimming in stream water.

Achieving Success is a continuous effort. Remember "Rome was not built in a day", so being patient while being trying is the key to success. Success is always an improvement within and not envying on others. Jealousy, envy etc. is a part of human nature. But when this starts controlling any individual; often it leads to frustration. We should try to control the controllable and not the uncontrollable. Conquer yourself inch by inch every day and soon you will conquer acme of success. All those who reached zenith of success have followed the less travelled path. The path traversed must have been full of failures, struggle and frustration. They did not give up and so you should not.



**Dr. Shruti Suman**  
Associate Professor, SoE





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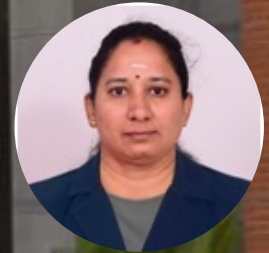
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