



PPSU

P P SAVANI UNIVERSITY

UGC APPROVED



25th Issue

Techvrutam



School of **Engineering**

January 2025

TABLE OF CONTENTS

**Event of Academic
Excellence**

4

**Industry -
Academia Meet**

6

**Faculty
Participation**

8

**Faculty
Achievement**

10

TABLE OF CONTENTS

**Research
Erudite**

12

**Students'
Achievement**

14

**Students'
Thinks**

18

**Students'
Creativity**

24

EVENTS OF ACADEMIC EXCELLENCE



“ DATA ANALYTICS IN EDUCATION ”

Mr. Vijay Patil, Assistant Professor in the Computer Engineering Department at the School of Engineering, gave a Session at the Faculty Development Program on "Data Analytics in Education" at A.Y. Dadabhai Technical Institute (Polytechnic) on December 6th and 7th, 2024.

“ PHP MVC FRAMEWORK: LARAVEL ”

The Online Expert session "PHP MVC Framework: Laravel" was held by the Computer Engineering Department of PP Savani University on September 05, 2024 from 9:00 AM to 11:00 AM. This session was organized for 7th semester of CE, IT, CSE and ITE students and was coordinated by Ms. Twisha Patel and Ms. Priya Patel, under the guidance of Dr. Niraj Shah.

PPSU
P P SAVANI UNIVERSITY
UGC APPROVED

School of Engineering

EXPERT TALK WEBINAR | School of Engineering

PHP MVC Framework: Laravel

DATE: Thursday, 05-09-2024 | TIME: 9.00 am to 11.00 am

EXPERT
Mr. Brijesh Patel
INNOVATE369, Founder - CEO,
CTO, IT Consultant, Project Manager,
Business Strategist .

MODERATORS

Twisha Patel
Assistant Professor,
School of Engineering,
P P Savani University

Priya Patel
Assistant Professor,
School of Engineering,
P P Savani University

CHIEF PATRON

Dr. Parag Sanghani
Provost,
P P Savani University

PATRON

Dr. Niraj Shah
Dean & Director
School of Engineering,
P P Savani University

Follow Us www.ppsu.ac.in



INDUSTRY-ACADEMIA MEET

P P SAVANI UNIVERSITY PARTNERS WITH IACE TO BOOST AUTOMOTIVE ENGINEERING EXCELLENCE

We are pleased to announce that the School of Engineering, P P Savani University, has signed an MoU with **the International Automobile Centre of Excellence (iACE), Gandhinagar.**

As a premier institution for skill development in the automotive sector, iACE leverages advanced technology to support the entire value chain of the automotive industry, from manufacturing to servicing.

This collaboration will provide **Mechanical Engineering students** with specialized training and internship opportunities, enhancing their industry readiness and expertise.



FACULTY PARTICIPATION



AI AND DIGITAL TECHNOLOGIES FOR SUSTAINABLE HEALTHCARE AND MEDICAL TECHNOLOGIES

Mr. Ankur Shah, an Assistant Professor, Computer Engineering Department participated in One week ATAL FDP on "**AI and Digital Technologies for Sustainable Healthcare and Medical Technologies**" at Institute of Technology, **Nirma University** from 25th November 2024 to 30th November 2024.



THERMAL MANAGEMENT TECHNIQUES

Mr. Abhinav Kashyap, Assistant Professor, Mechanical Engineering Department participated in one-week Short Term Training Program on "**Thermal Management Techniques**" conducted by Department of Mechanical Engineering, **S.V. National Institute of Technology**, Surat from November 18, 2024, to November 22, 2024.





FACULTY ACHIEVEMENT

Mr. Aakash Gupta, Ms. Maulika Patel, Ms. Hemangini Patel and Mr. Mrugesh Patel of Computer Engineering Department, School of Engineering at P P Savani University was granted the patent titled “**AI BASED MENTAL HEALTH DIAGNOSTIC DEVICE**” from the IPR Office, UKDesign.

Mr. Ankur Shah, an Assistant Professor, Computer Engineering Department completed paper review for First International Conference on Advances in Smart Computing and Applications (ICASCA-2025), scheduled for February 15–16, 2025, at GLS University, Ahmedabad.

Mr. Aakash Gupta, an Assistant Professor, Computer Engineering Department completed paper review for the esteemed academic journal Environment and Social Psychology (ISSN: 2424-8975, Online | 2424-7979, Print) in 2024 on 22nd October 2024.



RESEARCH ERUDITE



Dr. Nikit N. Deshmukh, Associate Prof., S&H (Physics), has published a collaborative paper with reputed faculties from Andhra University and renowned scientists from Bhabha Atomic Research Centre (BARC), Mumbai titled **“Fission modes in ^{223}Ac and ^{227}Pa compound nuclei”** in **Q1 – category** journal named **Physical Review C** with **impact factor of 3.2**, Volume 110, 014622 (2024): ISSN (Online): 2469-9993.

DOI: <https://doi.org/10.1103/PhysRevC.110.014622>

Dr. Nikit N. Deshmukh, Associate Prof., S&H (Physics), has published a collaborative paper renowned scientists from Bhabha Atomic Research Centre (BARC), Mumbai titled **“Experimental evidence of shell effects in slow quasifission”** in **Q1 – category** journal named **Physical Review C** with **impact factor of 3.2**, Volume 110, 034601 (2024): ISSN (Online): 2469-9993.

DOI: <https://doi.org/10.1103/PhysRevC.110.034601>

Dr. Nikit N. Deshmukh, Associate Prof., S&H (Physics), has published a collaborative paper renowned scientists from Bhabha Atomic Research Centre (BARC), Mumbai titled **“Observation of near-scission “polar” and “equatorial” proton emission in heavy-ion induced fission”** in **Q1 – category** journal named **Physical Letters B** with **impact factor of 4.3**, Volume 858, 139014 (2024): ISSN (Online): 0370-2693.

DOI: <https://doi.org/10.1016/j.physletb.2024.139014>

Dr. Nikit N. Deshmukh, Associate Prof., S&H (Physics), and his Junior Research Fellow Mr. Rambabu Mourya has published a paper titled **“Application of reduction methodology for halo, weakly and tightly bound projectiles on tin isotopes”** in **Q1 – category** journal named **“The European Physics Journal A”** with **impact factor of 2.6**, Volume 60, 219 (2024): ISSN (Online):1434-601X.

DOI: <https://doi.org/10.1140/epja/s10050-024-01429-w>

Dr. Nikit N. Deshmukh, Associate Prof., S&H (Physics), has published a collaborative paper with reputed faculties from Centurion University, Orissa titled **“Understanding the projectile breakup mechanism using monte carlo simulation technique”** in **Q3 – category** journal named **“East European Journal of Physics”** with **impact factor of 1.0**, Volume 4, 195 (2024): ISSN (Online): 2312-4539.

DOI: <https://doi.org/10.26565/2312-4334-2024-4-18>

STUDENTS' ACHIEVEMENT



B.S. DEGREE IN DATA SCIENCE AND APPLICATIONS FROM IIT MADRAS QUALIFICATION AND REGISTRATION

Jay D. Gautam from Computer Science Engineering (AI & ML) have passed qualifier exam conducted on 16th July, 2023 and eligible to register to the foundation level of the B.S Degree in Data Science and Applications from IIT Madras.



B.S. in Data Science and Applications
Indian Institute of Technology, Madras 600036

Chennai
19 July 2023



To
JAY GAUTAM DEVIDAS GAUTAM
jaygautam561@gmail.com

Sub: Letter of Admission to the Foundation level of B.S. in Data Science and Applications from IIT Madras

Dear JAY GAUTAM DEVIDAS GAUTAM

Greetings from IIT Madras!

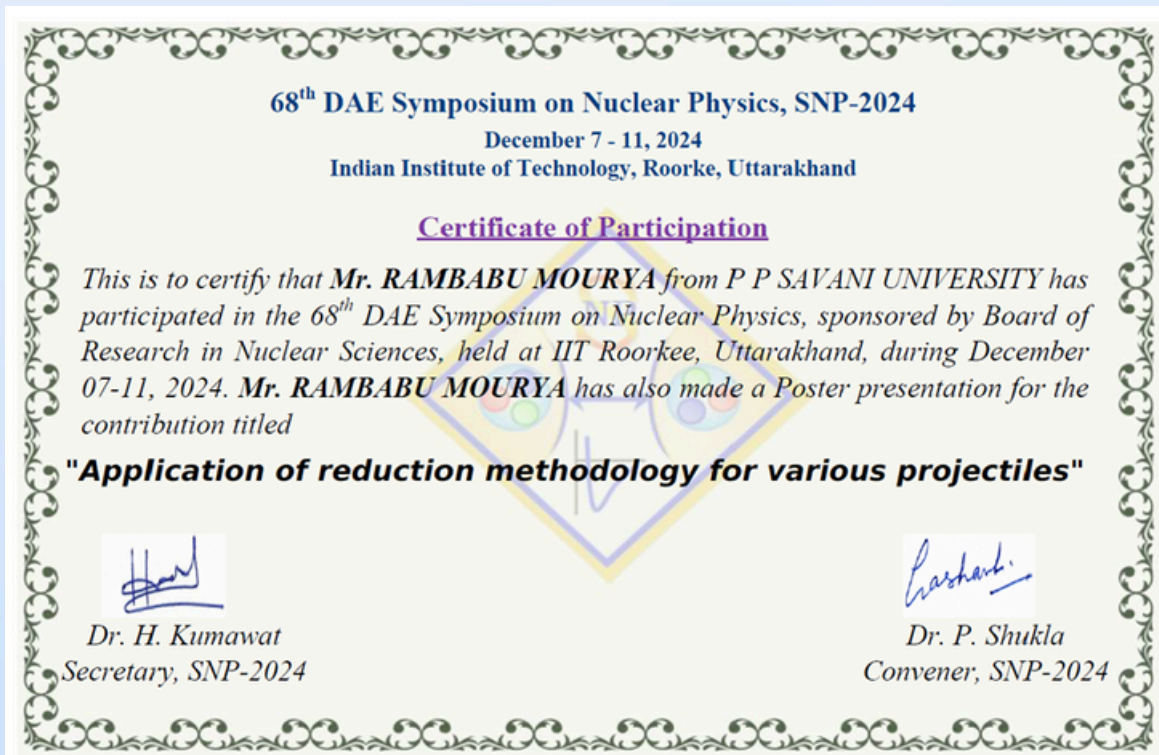
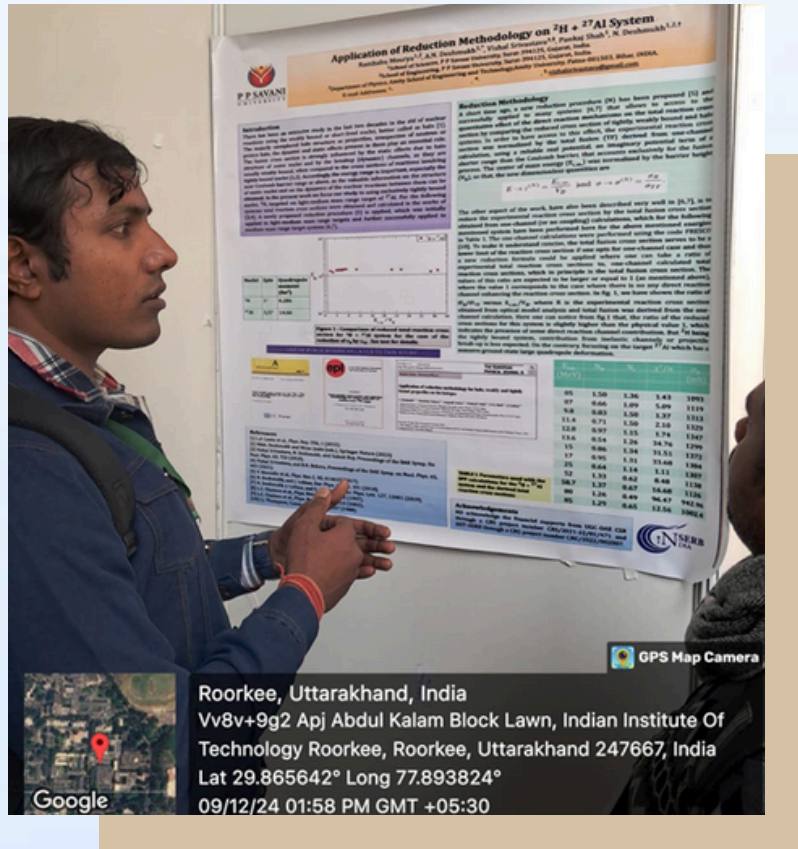
We are pleased to inform you that you have passed the qualifier exam conducted on 16th July, 2023 and are eligible to register to the Foundational level of the B.S. Degree in Data Science and Applications from IIT Madras. We congratulate you on this and invite you to complete the remaining formalities of the registration process. Admission will be valid for the 3 terms of May 2023, Sep 2023, Jan 2024

Wish you all the best.


Prof. Andrew Thangaraj
Coordinator
IIT Madras B.S. Degree Program

Prof. Vignesh Muthuvijayan
Coordinator
IIT Madras B.S. Degree Program

Mr. Rambabu Mourya, Junior Research Fellow Professor, S&H (Physics), participated and presented a paper in the 68th DAE Symposium on Nuclear Physics held at IIT Roorkee, Uttarakhand, from December 07 – 11, 2024.



As an initiative of Student Support and Innovation Policy(SSIP), following were the startups :

“**Grow Textiles**” founded by: Jenish Jiyani, Mayank Lakhani, Jenish Borad, Vinay Radadiya. Mentored by **Mr.Abhijit Parmar**, Assistant Professor , School of Engineering received a grant of **Rs. 50,000**.

“**Student Education Platform with AI Integrated**” founded by: Nemish Bhuva,Smith Maniya, Mann Shah,Harshil Devadharah, Jeet Bherwani. Mentored by **Mr.Kaushal Singh**, Assistant Professor , School of Engineering received a grant of **Rs. 50,000**.

“**Eyes on the Wheel**” founded by: Jay Chhantbar, Samarth Dumasia,Jeneel Dumasia, Jaykumar Mistry,Darshil Patel. Mentored by **Mr. Abhijit Parmar**, Assistant Professor, School of Engineering received a grant of **Rs. 35,000**.

“**Chemotrades**” founded by: Bhushan Pundalik Patil, Saurav Sanjay Dubey, Samir Sourabh Patel, Samith Ramesh Patil, Adarsh Pandey, Hitanshi Yadav. Mentored by : **Dr. Rohit Sunil Khedkar**, Associate Professor , School of Engineering received a grant of **Rs. 25,000**.

“**Detoxifying Salts**” founded by : Geetha Choudhary , Adarsh Pandey, Savan Kaginkar. Mentored by : **Dr. Rohit Sunil Khedkar**, Associate Professor , School of Engineering received a grant of **Rs. 20,000**.



STUDENT THINKS





Barad Hemraj

24SE02CS119

B. Tech Computer Science Engineering

Barad Hemraj has written a book on “ALFRED WANLEY”. This story book is based on a fictional character Alfred Wamley which depicts on incidents that made him a criminal and changed the way everything he sees around him. His books are available on amazon/amazon kindle and paperback version is available on **website: hemraj0111.carrd.co.**

Good work and appreciable!!!

ख्यालो के ख्वाब

क्या हसीन इत्तेफाक होते थे , जब हम आपके सामने होते थे
नयनो में बसी आपकी छवि बस देखने के लिए ही तरसते थे

आपकी छोटी सी मुस्कान सीधे मेरे हृदय को गुमराह करती
उस पल कमबख्त तनहाइयाँ भी मानो खुद में इश्क भरती !

ख्यालो में विध्वंस मचा था और ख्वाब शांति का देखा था
ये दुर्लभ विपदा के पश्चात भी साथ आपका कहा छोड़ा था

एतबार जीवनभर का रहेगा पर उम्मीद में हम नाकाम है
निःसंदेह स्मरण अक्सर करते है पर पीड़ा भी अपार है...

कभी खेरियत भी पूछ लेते हम जिंदा तो है या...
खैर उम्मीद भी अपनो से लगाई जाती है आप तो फिर भी पराये
बन गए

अधीर मन

सुना हुआ मेरा संसार, जब से आपने अलविदा कहा
रूठा हुआ मेरा हृदय , आपके विरह में उलझता रहा

जुनून था आपको खुद से मिलाने का , जैसे धरा-ए-प्रवाह
गुरुर था हमें खुद पर जैसे हम ही है नैन चश्मदीद गवाह

चक्षु अक्सर धोखा खाते है जहाँ दृष्टि हृदय के नज़रिएसे हो
तनहाइयाँ भी दीवानगी का रूप बन जाती जहाँ मोहब्बत हो

स्वयं मुस्कुराया करते थे हम, न जाने कहा खो गए वो पल
जीवन है इसी प्रतीक्षा में कदाचित आप लौटकर आएंगे भी कल

व्यर्थ की मिथ्या कहानियाँ सत्य बताने में आप सफल हुए
किन्तु सत् के पंथ पर चलने में निःसंदेह आप विफल हुए

स्वयं की शक्ति पहचानने की क्षति, बनी मेरी दुर्भाग्यावस्था
धन्यवाद है कान्हा की लीला का जो बनी मेरी सौभाग्यता

आत्मसात्करण

हमारी वजह से किसी की जिंदगी में मदद या सुधार होता है...

यदि वह जीव यह स्वयं स्वीकार कर ले...

कि उसकी प्रसन्नता की वजह हम है!

तो यह जीव का सौभाग्य है कि...

उसमें धन्यवाद देने की निर्मलता व्यापक रूप से समा चुकी है

और...

अगर वो जीव नहीं मानता...

फिर तो ये हमारा सौभाग्य है कि...

हमने जिसकी मदद की उसके साक्षी मेरे और मेरे आराध्य के अलावा कोई नहीं!



Dhruvi Malankiya

23SE02CS056

B.Tech Computer Engineering

SEMESTER : 4

A HEARTFELT FAREWELL: WORDS FROM A FINAL-YEAR SENIOR

Dear Juniors,

As I sit down to write this, a wave of emotions hits me—this is my final year. It feels like just yesterday I walked through the college gates for the first time, a mix of nerves and excitement for what lay ahead. And now, here I am, penning this letter to all of you—the ones who will carry forward the heart and soul of this place we've proudly called home.

College is a whirlwind, and trust me, it flies by faster than you can imagine. One moment, you're struggling to find your classroom, and the next, you're planning farewells. So, my first piece of advice? Savor every moment.

College is so much more than just lectures and exams (though, yes, those do matter). It's about discovering who you are, finding your passions, and maybe even learning how to make maggi in record time during those hostel midnight cravings.

Pro tip: Don't limit yourself to the syllabus—step out of your comfort zone. Join that quirky club, participate in fests, and take a leap of faith by trying out for something new, even if it scares you a little (like the drama team!). These experiences will fill your college life with laughter, adventure, and stories you'll cherish forever.

Of course, let's not pretend it's all sunshine and rainbows. There'll be days when you feel overwhelmed. You might fail a test, argue with a friend, miss home-cooked food, or question why you even signed up for that 8 AM lecture. But don't let those moments define your journey. Lean on your friends (who'll become family), talk to your professors (they're cooler than you think), and keep going.

Oh, and please don't turn the library into your napping spot—or at least, don't snore too loudly if you do. Explore the campus, find those hidden corners where you can just chill, and take way too many photos.

As someone who's about to step into the "real world," let me tell you this: you're going to miss it. The canteen chai, the crowded hallways, the constant buzz of campus life—it all becomes a fond memory. So live it fully, love it deeply, and leave your mark.

Finally, look out for one another. Lift each other up, cheer on your friends' successes, and offer a helping hand when someone stumbles. That's what makes this college not just an institution, but a family.

I'm rooting for all of you, and I can't wait to hear about the amazing things you'll do. This is your time to shine, juniors—so go ahead and make it unforgettable.

With all my love and a heart full of nostalgia,



Maitri Bhuva

21SE02IE005

B. Tech Information Technology Engineering

SEMESTER : 8

WE ALL GREW UP

From the lively halls of our college days to the reality of stepping into adulthood, the journey has been nothing short of life-changing. We all grew up.

In the early days of college, life was full of fun, laughter, and carefree moments. We spent our time joking around and enjoying life without a second thought. The library wasn't just a place for books; it was also where we spent hours talking and pretending to study. The lake became our meeting spot, But as time passed, things began to change.

Now, in our final year, the reality of growing up has hit us. Internships, job interviews, and responsibilities are taking over the time we once used for fun. The days of asking our parents for money without hesitation are gone. Now, we feel a little guilty when we need their support, knowing we're supposed to be independent.

Life has become more serious, and we've started to take on responsibilities that once seemed so far away. Learning to budget our money and balance our dreams with reality has become our new normal.

As we look back, we realize how much these years have shaped us. The laughter, the challenges, and the shared moments with friends have all contributed to who we are today. Whether it was staying up all night before exams to teach each other on google meet or celebrating birthdays, victories together, these experiences have made us stronger and more prepared for the future. We all grew up, little by little, without even noticing.

Now, as we are on the verge of completing our college , the future feels both exciting and a bit scary. But despite the uncertainties, we can't help but feel proud of how far we've come. These years have taught us to grow, to adapt, and to face what's ahead with courage.

Growing up hasn't been easy, but it's been worth it. The memories we've made and the lessons we've learned will stay with us forever. The laughter might now come with a hint of nostalgia, but one thing is clear—we all grew up.



Jay Virani

21SE02CE050

B. Tech Computer Engineering

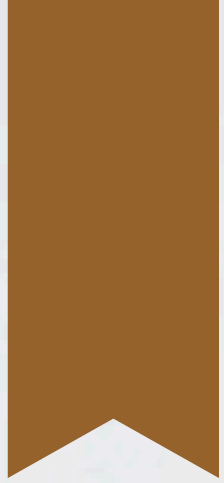
SEMESTER : 8

STUDENTS' CREATIVITY





TISHA PATEL
24ID01CE029
Diploma Studies (IDS)



EDITORIAL BOARD



Patron



Shri Vallabhai Savani
President,
P P Savani University



Dr. Parag Sanghani
Provost,
P P Savani University

Convener



Dr. Niraj Shah
Dean & Director,
P P Savani School of Engineering

Editor



Ms. Twisha Patel
Asst. Prof., CE & IT
SoE



Ms. Sneha Saini
Asst. Prof., CE & IT
SoE



Dr. Ranjit Kumar Dehury
Asst. Prof., ME
SoE



Ms. Subhashini K
Asst. Prof., CE & IT
SoE

Designer



Varun Rana
21SE02CS060



Khushi Gundraniya
22SE02ML027