

राष्ट्राय स्वाहा इव न मम ।



BULLETIN
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V.V.P.

ENGINEERING COLLEGE

AICTE Approved & Affiliated to GTU, Ahmedabad

Jan-June 2025-Vol. 14

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ENGINEERING
DEPARTMENT



V.V.P. Management

- India's energy transition is in its own interest because, otherwise economic growth would not be sustainable and human security would be at stake, since millions of climate refugees are created due to the devastating consequences of climate change.
- The Prime Minister has committed to increase renewable energy and reach 500 GW target by 2030, which is only 100 GW in 2021.
- Our wind energy production is only 12.5% of the total potential and solar energy production is only 4.6 % of the total potential, a challenging task to tap unused resources.
- The Prime Minister has announced the launch of the National Hydrogen Energy mission.
- Green Hydrogen is a major component of renewable capacity of energy.
- Engineering problems of cost, scale, adopting new technologies, working out distribution chains and storage of Hydrogen should be met by the government, bureaucracy, universities, engineers and technocrats by a coordinated policy and its implementation.



Message from Principal



Dr. Piyush B. Vanzara

At V V P Engineering college, our vision is to transform our students into competent professionals by nurturing intellectual curiosity, inspiring creativity, and equipping students with the knowledge and skills needed to thrive in an ever-evolving world. We aim to be an exemplary institution that empowers individuals to reach their full potential, promotes interdisciplinary collaboration, and addresses global challenges.

We envision a future where our students not only excel academically but also grow as responsible and ethical leaders who contribute meaningfully to society. Our commitment to excellence in education and holistic development will ensure that our graduates are prepared to make a positive impact on the world in their respective fields and communities.

With a focus on continuous improvement, we strive to be a place where diverse perspectives are celebrated, and where all members of our community—students, faculty, and staff—work together to create a sustainable, prosperous future for all.

Let us move forward with a shared sense of purpose and dedication for shaping the engineers of tomorrow.

About the Institute



Vyavsayi Vidhya Pratishthan (V.V.P.) Engineering College is established by Rajkot Nagrik Sahakari Bank Ltd. to promote excellence in engineering education. The trust was founded in 1996 with an objective of meeting technical requirements of Gujarat. V.V.P. Engineering college has been matching ahead with a vision of transforming aspiring engineers to industry ready engineers, serving the nation at large.

The disciplined academic environment strengthening technical foundation of the students, is the unique identity of V.V.P. Innovation, creativity, team-spirit, entrepreneurship add to the scholastic achievements of the students and give them opportunities to enhance their personalities. The transparent governance and dedicated teaching by the qualified faculties make V.V.P. one of the most sought for engineering colleges of Gujarat.

With the best theoretical and practical teaching in the well-equipped classrooms and laboratories, V.V.P. is also well known for its modern library, wi-fi campus, training & placements programs, expert lectures and strong alumni network.

Needless to say that V.V.P. Engineering College keeps no stone unturned in directing students towards research activities like the practice of research paper writing, patent drafting, paper presentation and poster presentation. Students having interest in sports & Cultural Activities also find a convenient environment and guidance here, through various club activities.

Vision

To be an exemplary institute, transforming students into competent professionals with human values.

Mission

- To provide a conducive academic environment for strengthening technical capabilities of the students.**
- To strengthen linkage with industries, alumni and professional bodies.**
- To organize various co-curricular and extra-curricular activities for overall development of the students.**
- To practice good governance and conduct value-based activities for making students responsible citizens.**

Message from Head of the Department



Dr. Vyomesh M. Parsana

The Chemical Engineering Department at V.V.P. Engineering College, Rajkot stands as a pioneer in the Saurashtra-Kutch region, committed to powering process industries through quality minds and strong moral values.

We maintain strong industry collaborations, notably as a NABL-accredited and GPCB-recognized Schedule-I Environment Auditor. The department has conducted in-house learning programs with Reliance Industries Limited and runs a faculty exchange programme with Nayara Energy Limited. Enriching activities like expert talks, industrial visits, alumni interactions, technical events, NSS, NCC, sports activities, GATE guidance, MAT-GK sessions, research paper writing competition, mock interviews, and skill development programmes define our dynamic ecosystem.

Our distinguished faculty, representing a variety of geographical regions, proudly features gold medallists from prestigious institutions such as IIT-Kharagpur, Nirma University, and MS University. Our team includes highly experienced 10 dedicated faculty members (5 PhD holders, 3 pursuing), supported by 3 skilled technical staff managing 10 specialized laboratories — from Chemical Reaction Engineering to Environment Audit. A dedicated computer laboratory equipped with open-source tools and a perpetual ChemCAD simulation software license strengthens our technical foundation.

We actively collaborate with leading global institutions, and our alumni excel worldwide across diverse sectors — a testament to the education and values we impart.

I warmly welcome you to experience one of the finest Chemical Engineering departments of Gujarat where innovation meets integrity at the heart of India's chemical industry.

Chemical Engineering Department

Vision

To be evolved as a leading resource of competent chemical engineering professionals with human values.



Mission

- To develop technical competence among students for solving problems of chemical and allied industries.
- To provide platform for overall development of students along with technical proficiency through co-curricular and extra-curricular activities as well as academic, alumni, research and industrial collaborations.
- To nurture human values in students by addressing social and environmental aspects.

Program Educational Objectives (PEOs)

- Apply knowledge of chemical engineering to address real-world issues.
- Establish successful career with professional ethics in chemical industries, academia and research institutes.
- Establish as chemical engineering professionals with teamwork, leadership, effective communication, innovative thinking and problem-solving skills.
- Influence society by agglomeration of human values along with sustainable technologies.

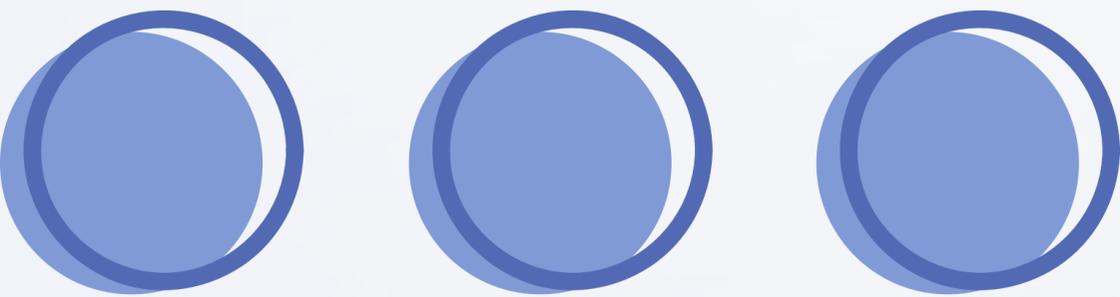
Program Specific Objectives (PSOs)

On successful completion of program, graduates will be able to:

- Apply knowledge of basic sciences, unit operations and unit processes to identify and solve problems of chemical and allied industries.
- Design innovative, economic, greener and safer processes and equipment using fundamentals of thermodynamics, kinetics, materials and energy balances.
- Model, simulate, control and optimize chemical engineering processes.

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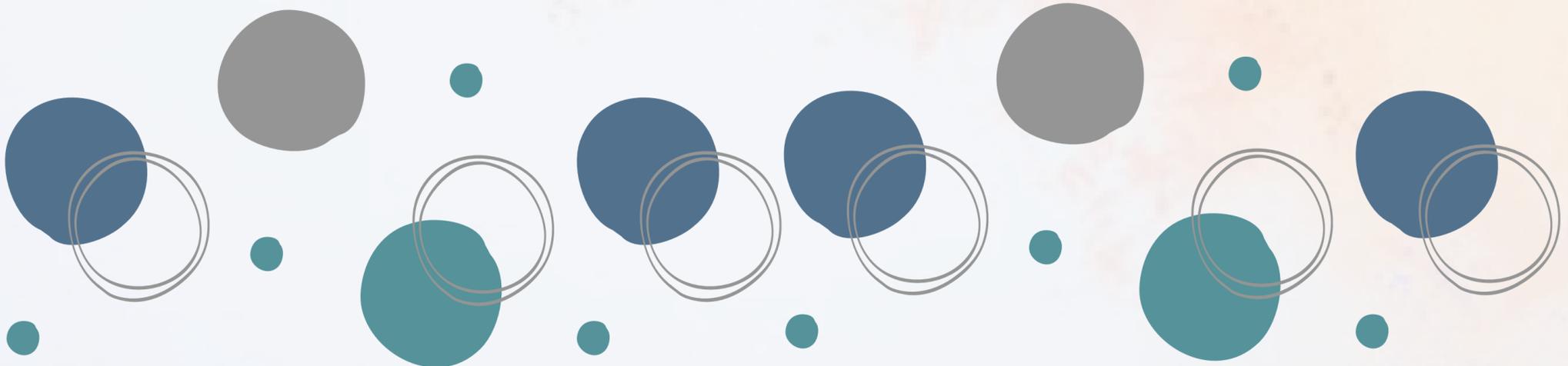
RESULT
PLACEMENT
DEPT ACHIEVEMENTS
EXPERT LECTURES
TECHNICAL EVENT
SKILL DEVELOPMENT PROGRAMME
MOCK INTERVIEW
PARENTS MEET
INDUSTRIAL VISIT



RESULT

BULLETIN
E

Semester	Rank	Name of Student	SPI	CPI
1	1st	Kotak Niyati Bhaveshbhai	8.32	8.32
3	3rd	Baraiya Harsh Ashokbhai	7.83	7.56



PLACEMENT BULLETIN



Reliance
Industries Limited
**DEV RAMESHBHAI
THORIA**



Reliance
Industries Limited
**PATEL BRIJ
ASHVINBHAI**



Reliance
Industries Limited
**CHERISH MANISHA
SAVSANI**



Reliance
Industries Limited
**PANCHASARA MANAV
NIRAJBHAI**



Reliance
Industries Limited
**PARTH JAGDISHKUMAR
RUPALA**



**FATANIYA AMIT
SHAILESH**



**PATHAR BRIJESHKUMAR
RAJESHBHAI**



**GANDHA JIGNESH
MANISHKUMAR**



**BARIYA JEEL
KETANBHAI**



**DHADUK OM
MAYUR**



**RUPARELIYA JAY
HAREHBHAI**



**PADARIYA KASHYAP
KHODUBHAI**



**NAYAKPURA SHUBHAM
SHAILESHBHAI**



**CHHAYANI DHRUV
ASHOKBHAI**



**PIPAROTAR MEET
BHIMJIBHAI**

Congratulations

Congratulations

Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
Dr. Piyush B. Vanzara (Principal & Professor)	<p>RECOGNIZED FOR HIS OUTSTANDING SERVICE AS A JUDGE IN THE POSTER PRESENTATION SESSION DURING ‘वेदविज्ञानम्’-2025 – THE NATIONAL CONFERENCE ON "वेद और विज्ञान".</p> <p>The conference was a part of the Gujarat Vigyan Sammelan (GVS) 2025, jointly organized by Saurashtra University, Rajkot (Gujarat) and Vigyan Gurjari – a Gujarat Prant Unit of Vijnana Bharati (VIBHA). The event was held on January 27, 2025 (Monday) at the Saurashtra University Campus, Rajkot.</p>
	<p>Invited as the Chief Guest for a One-Day Workshop on "Environmental Conservation Through Green Energy" organized in celebration of National Science Day 2025 28th February 2025 by Department of Nanoscience and Advanced Materials, Saurashtra University</p>
	<p>Actively participated in the Awareness Workshop on "Outcome-Based Education and Accreditation (OBE&A)", held on 29th March 2025. The workshop was jointly organized by the National Board of Accreditation (NBA) and Gujarat Technological University (GTU-IQAC) to promote best practices and understanding of outcome-based education systems and accreditation processes.</p>

Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
Dr. Piyush B. Vanzara (Principal & Professor)	<p>Participated in a One-Day State-Level Seminar on "Intellectual Property Right: Need in Education for Vikshit Bharat", held on 15th February 2025.</p> <p>This seminar was a joint initiative of the Intellectual Property Office India (IPO) and V.V.P. Engineering College, Rajkot, Gujarat, aimed at raising awareness on the importance of Intellectual Property Rights (IPR) in the educational ecosystem, aligned with the vision of a Vikshit Bharat (Developed India).</p>
	<p>Academic contribution of Prof. Dr. Piyush B. Vanzara for successfully guiding a Ph.D. scholar under Gujarat Technological University, Ahmedabad in the field of Chemical Engineering.</p>
	<p>Prof. Dr. Vanzara served as a research guide for Ph.D. students in Chemical Engineering whose dissertations/theses focused on sustainable practices and innovations in clean technology. His contribution was recognized under the prestigious initiative by the Gujarat Cleaner Production Centre (GCPC) for the academic year 2024-25, which aims at strengthening the interlinking of industries, academia, and government.</p>

Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
Dr. Piyush B. Vanzara (Principal & Professor)	Invited to attend Project Fair 2025 organized by Kalyan Polytechnic, managed by Darshil Education Foundation on April 5, 2026.
	Recognized as a “Radio Artist”, acknowledging his valuable contribution to the program and effective communication on a public platform.
	Honored with a Certificate of Appreciation for chairing a session at the International Conference on Sustainable Technologies in Energy & Environmental Management (STEEM 2025). The conference was organized by the Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, and held on June 6–7, 2025.
	Dr. Piyush Vanzara addressed the students in the “Saraswati Sanman Samarambh” Program organised by Rajkot Computer Traders Association (RCTA) on June 22, 2025, to celebrate the academic achievements of its members' children.

Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
<p>Dr. Vyomesh M. Parsana (HoD & Associate Professor)</p>	<ul style="list-style-type: none">• A research paper titled “Vapor-liquid equilibrium, thermodynamic properties, process simulation and economic evaluation of CPME and methanol system” has been successfully published in the prestigious Q₁-ranked AIChE Journal (Wiley).• The study provides experimental and simulation-based insights into the CPME–methanol system, contributing to green separation techniques and economic evaluation.• The research was supported by GTU under the Research Promotion Scheme (Grant ₹50,000) and received continuous encouragement from V.V.P. Engineering College. Special appreciation goes to the collaborators from Delft University for their valuable inputs.• Dr. Vyomesh M. Parsana, along with Abhishek Gupta, Dharmesh Sur, and Kedar Joshi, has contributed Chapter 5: “Thermodynamics and Phase Equilibrium” to the recently published book Chemical Engineering Essentials, Volume 1: Comprehensive Chemical Engineering, published by Wiley-ISTE in April 2025.



Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
Dr. Darshana T. Bhatti (Associate Professor)	Dr. Darshana Bhatti published a book chapter titled “Statistical Evaluation of Difluoro Triazole Acetophenone Photocatalysis Utilizing Ag-Fe Codoped TiO₂ Nanoparticles” in <u>Chemistry and Biochemistry: Research Progress Vol. 3</u>, published by <u>BP International</u> on 21st February 2025.
	Published a research paper titled “Sustainable utilization of industrial solid and hazardous wastes with coal for energy and environmental efficiency” in the high-impact Springer journal Environmental Science and Pollution Research (Impact Factor: 5.4) in April 2025.
	Successfully completed NITTT Module 5 with an excellent score of 93%.
	Published a patent titled “Method for clarification treatment of turbid water by using natural coagulants” on 4th April 2025, showcasing her innovation in sustainable water treatment technologies.



Departmental Achievements



Name of Faculty	Faculty Achievement –Book Chapter Publication/Paper Publication/Recognition
Mr. Pratik K. Koradiya (Assistant Professor)	Successfully completed Module 8: Institutional Management and Administrative Procedures under the National Initiative for Technical Teachers Training (NITTT), conducted by the All India Council for Technical Education (AICTE).



Departmental Achievements

GUJARAT CLEANER PRODUCTION CENTRE

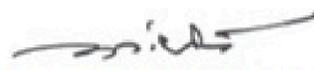
CERTIFICATE OF CONTRIBUTION

THIS IS TO CERTIFY THAT

Mr./Ms./Prof./Dr. **Vyomesh M. Parsana**, Assistant Professor of **Department of Chemical Engineering** of **V.V.P. Engineering College, Rajkot** has contributed as a guide towards Dissertation/Thesis of **PhD Chemical Engineering** student/students on **Cleaner Production and Clean Technology** under **Interlinking of Industries, Academia and Government** for the Year 2024-25.

Date: 1st March, 2025




(DR. BHARAT JAIN)
MEMBER SECRETARY
GUJARAT CLEANER PRODUCTION CENTRE



Expert Session

“Navigating the Campus Placement Process: A Step to Step Guide”

by Mr. Jaydeep Chavda,

(Shift Engineer – Reliance Industries Limited, Jamnagar)



Chemical Engineering Department organized an expert lecture on “Navigating the Campus Placement Process: A Step-by-Step Guide” by Mr. Jaydeep Chavda, Shift Engineer at Reliance Industries Ltd., Jamnagar, on 21st April 2025 for 4th and 6th semester students.

Mr. Chavda, alumnus of the 2023 batch, shared valuable insights on developing interview skills and cracking campus placements. He guided students through every stage—from resume writing, dressing professionally, presenting oneself, and mastering body language, to preparing for aptitude tests, technical tests, group discussions, and personal interviews.

He delivered an A to Z roadmap for students to confidently face interviews and shape their professional careers.

Expert Session

Entrepreneurial Opportunities for Chemical Engineering Students"

By Mr. Vishal Sarvaiya

(Founder – Shree Vam Industries, Rajkot)



Mr. Vishal Sarvaiya conducted an inspiring session focused on entrepreneurship development for Chemical Engineering students. He shared deep insights into becoming a successful entrepreneur, covering topics such as opportunities in Chemical Engineering, academia-industry collaboration, sustainable development, fund management, team building, and business expansion.

He emphasized the importance of project work in engineering, offering guidance on selecting impactful projects, submitting to SSIP for grants up to ₹2 lakhs, and patent filing support. Mr. Sarvaiya shared his personal journey—from starting with zero investment to becoming the owner of a group of industries—explaining key stages like ideation, branding, marketing, and dealing with competitors.

He highlighted core competencies for start-ups and stressed the value of relationship building in business. Encouraging students to think beyond limits, he motivated them with the powerful message: "Sky is the limit for those who dare to innovate."

Technical Event

"Research Paper Writing Competition"



Chemical Engineering Department organized a Research Paper Writing Competition on 19th February 2025 at the departmental level. Five student groups participated, presenting on diverse and impactful topics such as Hydrogen Production – A Review, The E-Solvay Process, and Green Biorefineries.

Participants were evaluated on presentation skills, technical proficiency, research writing quality, and innovation by a panel of judges including Mr. Ajinkya Patwardhan, Mr. Pratik Koradiya, and Dr. Darshna T. Bhatti. The event showcased the students' dedication to research and encouraged academic excellence.

Top three teams were ranked, with the first-place group advancing to the college-level competition held on 21st February 2025, competing with winners from other departments.

The competition successfully motivated and inspired students to pursue research-driven learning and future innovations.

Skill Development Programme

The Skill Development Program on Personality Development for Chemical Engineers was conducted for 6th semester students at V.V.P. Engineering College to enhance students' confidence, interpersonal skills, and industry readiness. Key sessions included:

1. Report Writing for Internship by Mr. Priyank Khirsariya
2. CV Preparation by Mr. Jilesh Pandya
3. Research Paper writing by Mr. Pratik Koradiya



Skill Development Programme

Chemical Engineering Department organized a Skill Development Program on Environment Audit starting from 24th January 2025, aimed at enhancing students' technical skills and bridging the gap between academia and industry.

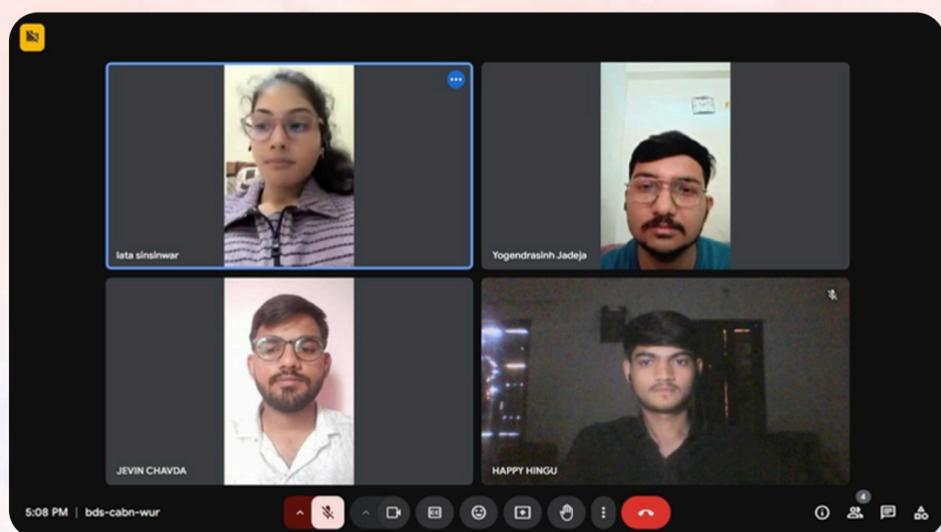
Mr. Priyank Khirsariya conducted sessions on the Scope and Objectives of Environment Audit and presented a case study on audits in the cement and power plant sectors. Mr. Rahul Vaidya demonstrated air quality monitoring techniques for parameters like PM, SO₂, and NO₂ using ambient air monitoring equipment. Mr. Pratik Koradiya explained stack monitoring methods, covering the measurement of gas flow rate, velocity, and moisture content. Dr. Darshana Bhatti introduced students to various instruments used for wastewater characterization.

The program provided hands-on training and practical insights, preparing students for careers in environmental management and auditing.



Mock Interview

Chemical Engineering Department of V.V.P. Engineering College organized an Online Mock Interview session for pre-final year students from 1st to 10th April 2025, with the participation of 20 students and 8 industry experts, including distinguished alumni.



Name of expert	Name of industry	Name of faculty
Miss Preeti Santani	KBR, Abu Dhabi	Dr. Vyomesh Parsana
Mr. Maulik Kothari	Reliance Industries Ltd. Jamnagar	Dr. Sushil Korgaokar
Mr. Miraj Purohit	Reliance Industries Ltd. Jamnagar	Dr. Darshana Bhatti
Mr. Pranav Ashar	Charutar vidya Mandal	Prof. Jilesh Pandya
Mr. Jaydeep Chavda	Reliance Industries Ltd. Jamnagar	Prof. Ajinkya Patwardhan
Mr. Jaydeep Chavda	Reliance Industries Ltd. Jamnagar	Prof. Priyank Khirsariya
Mr. Jubin Patel	L & T	Prof. Pratik Koradiya
Mr. Harsh Bhatt	Nirma Chemicals Ltd. Bhavnagar	Prof. Rahul Vaidya
Miss Lata Sinsinwar	Tata Chemicals Ltd., Mithapur	Prof. Dhara Upadhyay

Students were grouped under coordinators and faculty members, and assessed on various parameters such as technical knowledge, communication skills, fluency, confidence, and eye contact. The interview included both technical and HR rounds, focusing on core concepts, recent technological trends, and analytical abilities.

Experts provided valuable real-time feedback, highlighting areas of improvement like communication, fluency in English, and technical depth. The initiative greatly boosted student confidence and preparedness for real interviews.

Parents Meeting

V.V.P. ENGINEERING COLLEGE
NBA Accredited Electrical, Computer, Electronics & Communication, Civil Departments

CHEMICAL ENGINEERING DEPARTMENT
PARENTS MEETING
(4th AND 6th SEMESTER)
Date : 04/04/2025



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Vajdi, Gujarat, India
7p76+vfp, Vajdi, Gujarat 360005, India
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04/04/2025 10:40 AM GMT +05:30

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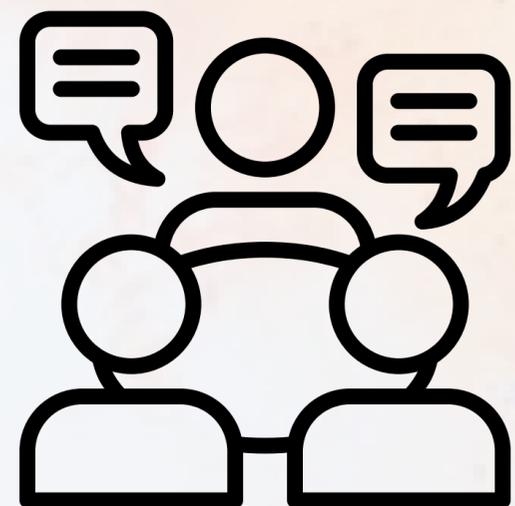
The Chemical Engineering Department organized a Parents Meeting on 4th April 2025 at 10:45 AM in the Mechanical Operation Lab, held under the guidance of Dr. Vyomesh Parsana, HoD, the session aimed to strengthen coordination between faculty and parents. It began with the chanting of three Omkars, led by Mr. Priyank Khirsariya. Parents of 4th and 6th semester students participated and engaged in one-on-one interactions with faculty to discuss students' academic progress, attendance, and discipline. Parents appreciated the initiative and the faculty's dedication. The meeting concluded with refreshments and positive feedback.



Vajdi, Gujarat, India
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04/04/2025 10:50 AM GMT +05:30

GPS Map Camera

Google



Industrial Visit

Visit to RSPL Pvt Ltd., Dwarka

An industrial visit to RSPL Pvt. Ltd., Kuranga, Devbhumi Dwarka was organized on 21st February 2025 for 6th Semester Chemical Engineering students, accompanied by Mr. Rahul G. Vaidya and Mrs. Ritaben Vachhani.

The visit aimed to provide practical exposure to soda ash production using the Solvay process, along with insights into plant safety, sustainable practices, and process operations. Students were welcomed by the company team, introduced to key departments, and briefed on safety protocols, including PPE usage and industrial hooter alert systems. The visit concluded with refreshments, lunch, and the distribution of Dwarkadhish photo frames as a token of hospitality. The experience greatly enriched students' understanding of chemical manufacturing and industrial safety. Special thanks to RSPL Pvt. Ltd. for their warm hospitality and informative sessions.



Visit to RMC Sewage Treatment Plant Raiyadhar, Rajkot

On 8th February 2025, students of 4th and 6th Semester Chemical Engineering from V.V.P. Engineering College, Rajkot visited the RMC Sewage Treatment Plant (STP) at Raiyadhar, Rajkot, accompanied by faculty members. The visit aimed to provide practical exposure to wastewater treatment processes and highlight their role in environmental sustainability.

The 56 MLD capacity plant treats municipal sewage using advanced technologies and releases treated water for agricultural use.

Key takeaways included understanding real-world applications of wastewater management, the importance of sustainable water reuse, and the engineering challenges in sewage treatment.

This educational visit significantly enhanced students' awareness and practical understanding of environmental engineering and sustainability.



V.V.P. Engineering College, Rajkot

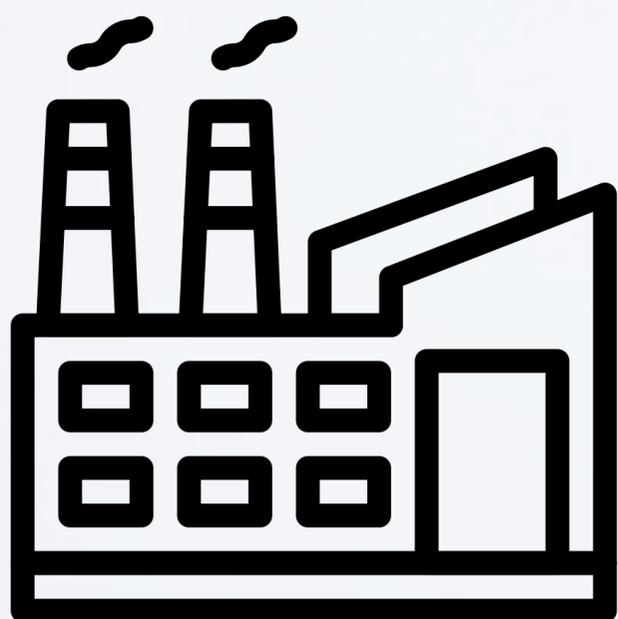
Industrial Visit

Visit to Sarthi Chemical Pvt Ltd., Rajkot

An industrial visit to Sarthi Chemical Pvt. Ltd., Kuvadva (Rajkot) was organized on 1st March 2025 for 4th and 6th Semester Chemical Engineering students of V.V.P. Engineering College, accompanied by faculty members Mr. Jilesh Pandya and Mr. Vijay Mehta.

The visit aimed to provide practical insights into the manufacturing of methyl bromide (CH_3Br). The visit offered hands-on exposure to chemical plant operations and emphasized the importance of process control, safety, and regulatory compliance.

Sincere thanks to Sarthi Chemical Pvt. Ltd. and the college for facilitating this enriching industrial experience.





“Chemistry is the art of understanding matter, and chemical engineering is the art of transforming that understanding into useful reality.”

By Carl Bosch (Nobel Laureate, developed the Haber-Bosch process)

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राष्ट्राय स्वाहा इदं न मम ।



V.V.P. ENGINEERING COLLEGE

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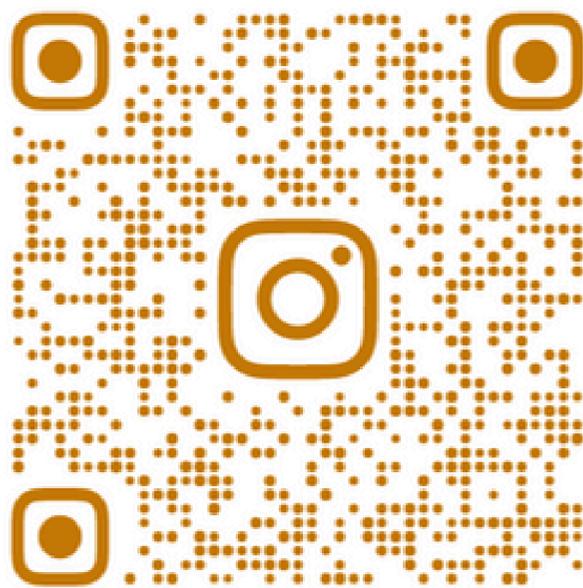
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