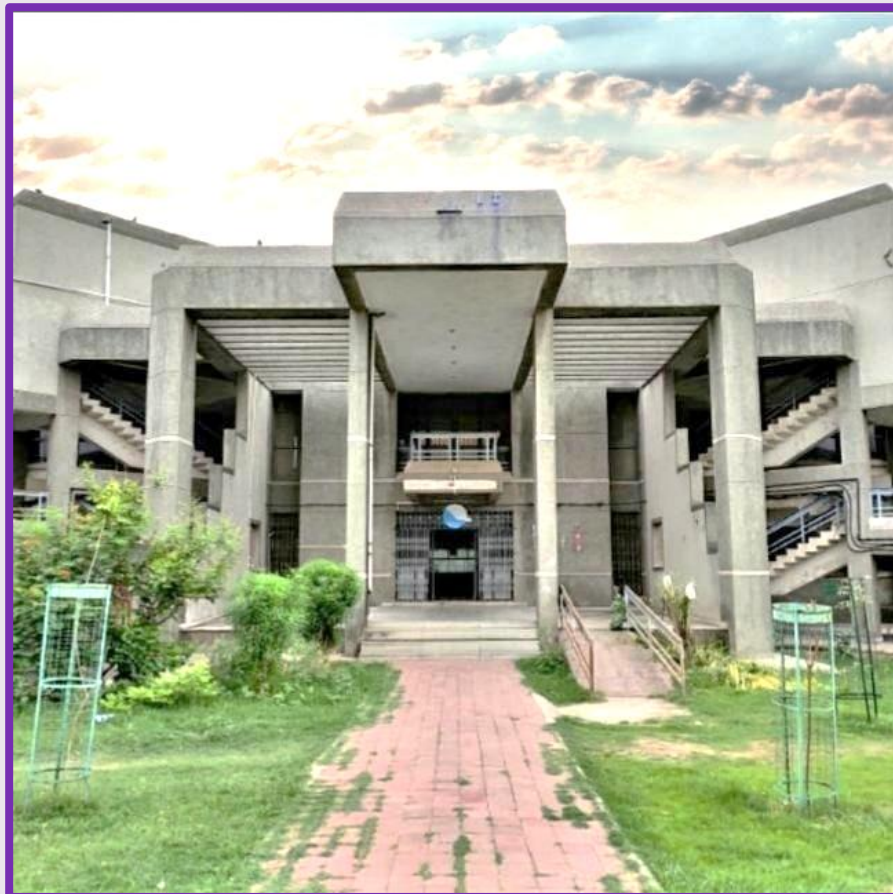


**CHEMICAL ENGINEERING DEPARTMENT
VISHWAKARMA GOVERNMENT
ENGINEERING COLLEGE**



RADIANCE



Newsletter | July - December 2025

Nr. Visat Three Roads, Sabarmati-Koba Highway, Chandkheda, Ahmedabad – 382424

From Department Coordinator



Dr. Femina Patel
Head of the Department

I am pleased to share the release of **RADIANCE – Volume 8, Issue 2**, the latest biannual newsletter of the Chemical Engineering Department, covering the period from July to December 2025.

This issue highlights the department's significant accomplishments, distinguished expert lectures, and a wide range of academic and co-curricular activities undertaken during the semester.

The publication reflects the dynamic progress of our department and the consistent commitment demonstrated by our faculty and students.

I extend my sincere appreciation and congratulations to all who have contributed to our academic, research, and co-curricular endeavours. May this edition of *RADIANCE* motivate us to continue striving for excellence and achieving greater milestones together.

Glimpses of the Department

The Chemical Engineering Department stands as a vibrant hub of academic excellence, innovation, and professional growth. Guided by a dedicated team of experienced faculty members and skilled technical staff, the department fosters a culture of curiosity, discipline, and continuous learning.

Our approach goes beyond conventional classroom teaching. We emphasize holistic development, enabling students to strengthen both their technical competence and personal capabilities. Through a balanced blend of strong theoretical foundations and practical exposure, we prepare graduates to become adaptable, confident, and industry-ready professionals.

The department nurtures a collaborative environment rooted in integrity, teamwork, and progressive thinking. Faculty members actively integrate emerging technologies, current industrial practices, and research insights into the curriculum to ensure relevance and quality in education. Experiential learning is promoted through industrial visits, expert lectures, workshops, seminars, and hands-on laboratory training, effectively bridging the gap between theory and real-world application.

Mentorship remains central to our philosophy. With personalized academic guidance and career support, the department empowers students to pursue their aspirations with clarity, competence, and confidence, transforming their professional ambitions into meaningful achievements.

DEPARTMENT VISION

To foster a vibrant environment for creating professional Chemical Engineers with integrity and ethics.

DEPARTMENT MISSION

- To develop open access laboratories and infrastructure for conducive learning.
- To enhance the professional engineering skills along with entrepreneurship, innovativeness and management.
- To strengthen linkages with industries, alumni and professional bodies.
- To undertake industry collaborative projects and research.
- To inculcate professional ethics and make socially responsible engineers.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

The Chemical Engineering program aims to develop versatile professionals who can excel in a variety of career environments. The Program Educational Objectives of B.E. (Chemical) program is:

- PEO-1:** To prepare graduates who will be skilled in fundamental concepts of Chemical Engineering.
- PEO-2:** To prepare graduates who will be capable of obtaining position in Industrial, Research, Government, Academic, Entrepreneur or other organizations, which use their technical knowledge and professional skills.
- PEO-3:** To prepare graduates who will have proficiency in execution of real time Chemical Engineering projects.
- PEO-4:** To prepare graduates who will contribute to the socio-economic environment of their communities.

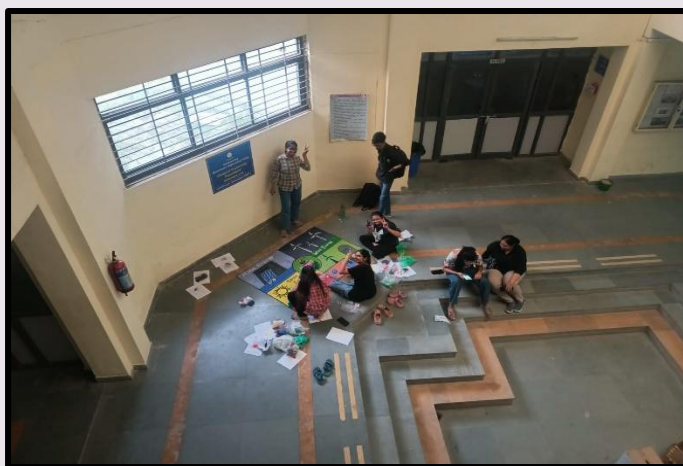
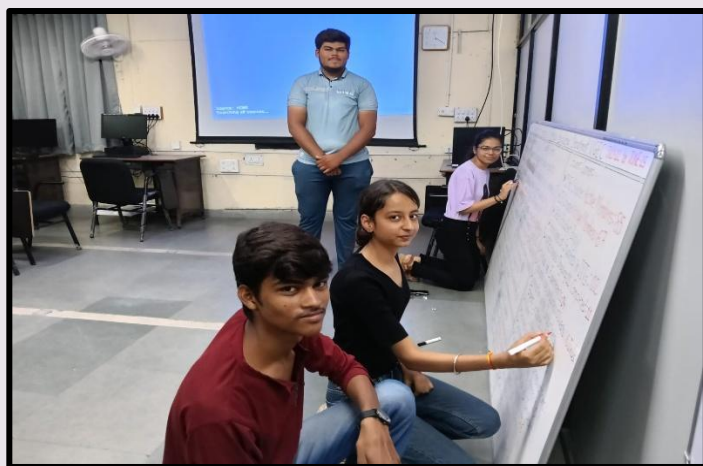
“Education is not just the filling of a bucket, but the lighting of a fire that illuminates the path to the future”

-William Butler Yeats

FACULTY AT A GLANCE

1	Dr. Femina J. Patel	Ph.D.	Heterogeneous Catalysis, Waste Water Treatment, Automotive Emission Control	Professor
2	Dr. Beena K. Acharya	Ph.D.	Acid Separation by Electro dialysis	Associate Professor
3	Dr. Hiral N. Pandya	Ph.D.	Synthesis and Characterization of Biodiesel / Biofuel	Associate Professor
4	Dr. Girish D. Vegad	Ph.D.	Thermodynamics, CFD, Numerical Methods	Associate Professor
5	Prof. Zoher Z. Painter	M.E.	Cleaner Production	Assistant Professor
6	Prof. Yogesh J. Morabiya	M.E.	Green Engineering	Assistant Professor
7	Dr. Sunil R. Patel	Ph.D.	Waste Water Treatment	Assistant Professor
8	Dr. Sonal S. Bhagat	Ph.D.	Pyrolysis, Reaction kinetics	Assistant Professor
9	Prof. Jay B. Trivedi	M.E.	Waste Water Treatment	Assistant Professor
10	Dr. Ujvala P. Christian	Ph.D.	Polymer Technology	Assistant Professor
11	Prof. Rakesh R. Merchant	B.E.	Chemical Processes	Assistant Professor

Glimpses of NBA Preparation



Proud moment for the Department!!

VGEC and Matangi Industries Ltd. Sign MoU to Foster Industry–Academia Collaboration

Vishwakarma Government Engineering College (VGEC), Chandkheda, has entered into a five-year Memorandum of Understanding (MoU) with Matangi Industries Limited on 30th July 2025, marking a significant step toward strengthening industry–academia collaboration.

The MoU was formally signed by Dr. V. S. Purani, Principal, VGEC, and Mr. Amit Shrivastav, CHRO, Matangi Industries Limited. This partnership aims to enrich student learning by facilitating internships, in-plant training, industrial visits, expert sessions by industry professionals, and enhanced placement opportunities aligned with current industrial practices.

The collaboration reflects VGEC’s continued commitment to bridge the gap between academic knowledge and industry requirements, thereby preparing students to become competent and industry-ready professionals.

Launch of ChemSOFT Club



The Chemical Engineering Department, VGEC, marked a proud milestone with the official inauguration of the **ChemSOFT Club** on 6th September 2025. The club has been established to create a focused platform for students to explore and apply software tools essential to the field of chemical engineering.

With a vision to promote technical proficiency through structured software-based training, the ChemSOFT Club seeks to enhance students’ skills in process design, simulation, analysis, and practical problem-solving. This initiative aims to bridge the gap between theoretical learning and industrial requirements, ultimately strengthening students’ technical competence and industry readiness.

Campus Placement Highlights

The Chemical Engineering Department is happy to share the recent campus placement success of our students. Their selection reflects their hard work and preparedness for industry. We congratulate all the selected students and wish them a bright and successful future.

Student Name	Year of passing	Employer
Jha Aniket	2025	Agratas-A tata Enterprise, Sanand
Akshay Asodariya	2025	Agratas-A tata Enterprise, Sanand
Shikhar Sanjay Bharti	2026	UPL Ltd., Bharuch
Manav Nayak	2026	UPL Ltd., Bharuch
Malhar Thaker	2026	UPL Ltd., Bharuch
Aryan Gohel	2026	UPL Ltd., Bharuch

Students Achievements



Shreyansh Jani (23170105023)
Hemnani Jenisha (23170105020)
Nimi Jha (23170105026)
Darshan Joshi (23170105027)

Students of the Chemical Engineering Department earned recognition as **Finalists** at **IICChE-CHEMATHON 2025**, held at Dharmisinh Desai University in association with Indian Institute of Chemical Engineers from 15th to 17th August 2025.

Guided by **Dr. Hiral N. Pandya**, the team presented their working project titled **“Process Intensification and Optimization of Biodiesel Production under SDG-13.”**

This accomplishment reflects the students’ innovative thinking, effective application of chemical engineering concepts, and strong commitment to developing sustainable and practical solutions.



V. M Achala (220170105076)
Vaghela Nandani (220170105073)
Sinha Shikha (22017015066)

Students of the Chemical Engineering Department secured the **Second Prize** at the prestigious **Outstanding Young Chemical Engineers (OYCE) Award**, held at Indian Institute of Technology Bombay on 5th–6th July 2025.

Their achievement was realized under the expert mentorship of **Dr. Femina J. Patel**, whose guidance significantly contributed to their strong performance and innovative approach.



Cadet **Nirali Gondaliya (240170105014)**, exemplifying discipline and dedication, proudly represented the spirit of unity at the “**Rashtriya Ekta Divas Parade 2025**”, held on 31st October 2025 at the iconic Statue of Unity. Her participation reflected her commitment, confidence, and patriotic spirit in celebrating national unity.

Hinal Ravat (230170105066)



She has achieved a remarkable milestone by being selected as the **Reserve Goalkeeper** for the Indian Women’s Blind Football Team for the **IBSA Women’s Blind Football World Championship 2025**.

Her selection followed outstanding performance in the national selection trials conducted from 14th to 16th August 2025. She has been invited to attend the final national training camp in Kochi, Kerala, scheduled from 15th September to 2nd October 2025.

This accomplishment reflects her dedication, perseverance, and excellence at the national level.

Patel kirtan (230170105053)

Panchal Milin (230170105039)

Nilesh Joshi (240173105012)



On **World Ozone Day** (16th September 2025), students of the Chemical Engineering Department participated in “*Slides for the Sky*,” a Presentation Competition organized by UPL University in collaboration with the Gujarat Pollution Control Board.

Their presentation titled “*The Montreal Protocol: A Success Story in Ozone Protection*” secured **Second Position at the State Level**. The award was presented by Dr. J. D. Oza and Dr. Shrikant J. Wagh, marking a proud achievement for the department.



Jenisha Hemnani (230170105020)
Shreyansh Jani (230170105023)
Nimi Jha (230170105026)
Darshan Joshi (230170105027)
Yash Vasava (230170105072)
Panchal Mayur (240170105040)

Students of the Chemical Engineering Department actively participated in the **Internal Smart India Hackathon (SIH)** held at Vishwakarma Government Engineering College on 26th September 2025.

Showcasing exceptional innovation, technical expertise, and teamwork, the team secured the **Winner position in the Hardware Category** at the institute level.



Jani Shreyansh (230170105023) successfully completed a 12-week NPTEL online course on **“Mass Transfer Operations-I”** offered by Indian Institute of Technology Guwahati during July–October 2025.



Nalavade Dhvani (230170105037) successfully completed a 12-week NPTEL online course on **“Mass Transfer Operations-I”** offered by Indian Institute of Technology Guwahati during July–October 2025.



Vaghari Tejal (230170105072) successfully completed a 12-week NPTEL online course on **“Mass Transfer Operations-I”** offered by Indian Institute of Technology Guwahati during July–October 2025.



Nilesh Joshi (240173105012) successfully completed a 4-week NPTEL online course on **“Mechanical Operations”** offered by Indian Institute of Technology Roorkee during July–August 2025.



Kirtan Patel (230170105053) successfully completed a 4-week NPTEL online course on **“Mechanical Operations”** offered by Indian Institute of Technology Roorkee during July–August 2025

DEPARTMENTAL ACTIVITIES

Empowering Engineers: Expert Lecture & Workshop Series

Expert Lecture on “Engineering Safety: A Deep Dive into ONGC’s Drilling Operations”

The Chemical Engineering Department, under the banner of the Institution of Engineers (India) Students’ Chapter, successfully organized an expert lecture on **“Engineering Safety: A Deep Dive into ONGC’s Drilling Operations”** on 9th July 2025.

The session aimed to familiarize students with real-world safety practices in the oil and gas sector, particularly drilling operations, while bridging the gap between classroom concepts and field applications in safety engineering, risk assessment, and emergency response.

The expert speaker, Mr. Vinod Kimothi, Retired Chief General Manager (Drilling), Oil and Natural Gas Corporation (ONGC), Ahmedabad, shared

valuable insights on the evolution of ONGC, major drilling assets, overview of the exploration and production industry, drilling operations and safety systems, well logging techniques, identification of hydrocarbon-bearing zones, and reservoir management practices.

A total of 74 students actively participated in the session. The event was effectively coordinated by Prof. Hiral Pandya and Prof. Sonal Bhagat.





Expert Session on Piping & Process Plant Engineering

The Chemical Engineering Department, Vishwakarma Government Engineering College (VGEC), organized an expert session on **“Piping Engineering and Process Plant Engineering from Concept to Commissioning”** on 29th July 2025.

The session aimed to bridge the gap between academic learning and industrial practice by offering insights into real-world engineering applications, project life cycles, and essential technical and managerial skills required in the chemical and process industries.

The expert speaker, Mr. Nitin G. Nageshwar, Director – YoKu Filters Pvt. Ltd. and CEO – YoKu Consultants, shared valuable industry experiences and case studies. He discussed key aspects such as P&ID development, equipment layout planning, material selection and design standards (ASME, ANSI, API), use of design and simulation software, site execution challenges, safety practices, project management (time, cost, and coordination), and career opportunities in piping and plant engineering.

A total of 65 students actively participated in the session, which was effectively coordinated by Dr. Hiral Pandya and Dr. Sonal Bhagat



Workshop on “Driving Sustainability: Life Cycle Assessment (LCA) Essentials for Chemical Engineers”

The Indian Institute of Chemical Engineers (IIChE) Student Chapter of the Chemical Engineering Department, VGEC, successfully organized a workshop titled **“Driving Sustainability: Life Cycle Assessment (LCA) Essentials for Chemical Engineers”** on 5th August 2025.

The workshop introduced undergraduate students to the fundamentals of Life Cycle Assessment (LCA), emphasizing its importance in sustainability evaluation and environmental impact assessment from a “cradle to grave” perspective.

The expert speaker, Shri Paresh Chavda, Deputy Manager and Unit Head, Environment Division, Gujarat Environment Management Institute (GEMI), shared practical insights into LCA methodologies and their application in improving the environmental performance of products and processes.

He elaborated on key aspects of Life Cycle Assessment, including evaluation of environmental impacts such as resource depletion, greenhouse gas emissions, water consumption, and effects on human health,

supported by practical examples and real-world case studies.

A total of 90 students actively participated in the offline workshop, which was efficiently coordinated by Dr. U. P. Christian.



Expert Lecture on “From Idea to Enterprise: Industry Perspectives on Entrepreneurship”

The Chemical Engineering Department, Vishwakarma Government Engineering College (VGEC), under the banner of the Institution of Engineers (India) Students’ Chapter, successfully organized an expert lecture titled **“From Idea to Enterprise:**

Industry Perspectives on Entrepreneurship” on 6th August 2025.

The session aimed to motivate students to explore entrepreneurship by understanding the journey of transforming innovative ideas into successful enterprises and learning the essential aspects of venture creation.

The expert speaker, Mr. Krunal Shah, Founder and Managing Director, Dentact Solutions Pvt. Ltd., shared valuable insights on opportunity identification, business planning, risk management, and the importance of innovation in achieving sustainable growth.

A total of 67 students actively participated in the session. The event was effectively coordinated by Dr. Hiral Pandya and Dr. Sonal Bhagat, making it an inspiring and enriching experience for all attendees.



“Scientists investigate that which already is; engineers create that which has never been.”

-Albert Einstein

Expert Session on “Engineering Careers and Simulation Excellence: Exploring Aspen, HYSYS & PetroSim”

The Chemical Engineering Department, Vishwakarma Government Engineering College (VGEC), under the banner of the Institution of Engineers (India) Students’ Chapter, organized an expert lecture titled “**Engineering Careers and Simulation Excellence: Exploring Aspen, HYSYS & PetroSim**” on 25th August 2025.

The session focused on bridging academic learning with industrial practice by emphasizing the role of advanced simulation tools in process design, optimization, and problem-solving in chemical engineering.

The expert speaker, Mr. Nimit Vasani, Process Engineer at Kuwait National Petroleum Company (KNPC), shared practical insights into the real-world applications of Aspen, HYSYS, and PetroSim in the chemical process industry. He highlighted the importance of simulation in improving energy efficiency, safety, and cost-effectiveness, along with career opportunities in process design and simulation domains.

A total of 65 students actively participated in the session. The event was effectively coordinated by Dr. Hiral Pandya and Dr. Sonal Bhagat.



Expert Lecture on “Project Management – A Crucial Skill for Engineering”

The Chemical Engineering Department, Vishwakarma Government Engineering College (VGEC), under the banner of the Institution of Engineers (India) Students’ Chapter, organized an expert lecture on “**Project Management – A Crucial Skill for Engineering**” on 30th August 2025.

The session aimed to introduce students to the fundamentals of project management and its practical relevance in industrial engineering projects. The expert speaker, Dr. Falak Barot, Sr. Manager – Projects at GSPC LNG Limited, delivered an interactive and engaging lecture, encouraging active student participation.

She shared valuable insights into real-world project execution, explaining how engineering projects are planned, managed, and controlled in industry. Key topics included the definition and characteristics of a project, roles and responsibilities of a project manager, and essential skills such as effective communication, leadership, strategic thinking, problem-solving ability, organizational competence, adaptability, and realism.

A total of 70 students actively participated in the session, which was efficiently coordinated by Prof. Jay Trivedi, making it an enriching and practical learning experience.



Expert Lecture on “Opportunities and Avenues in the Field of Packaging”

The Chemical Engineering Department, Vishwakarma Government Engineering College (VGEC), under the banner of the Indian Institute of Chemical Engineers (IICChE) Students’ Chapter, organized an expert lecture on 12th December 2025.

Dr. Amit Singla, Regional Head, Indian Institute of Packaging (IIP), Ahmedabad, delivered an insightful talk on emerging opportunities in the packaging industry. He discussed material selection, design, quality control, R&D, sustainable packaging trends, smart packaging innovations, and the influence of packaging on product safety and brand value.

A total of 54 students participated. The session was coordinated by Dr. Ujvala Christian, Dr. Hiral Pandya, and Dr. Sonal Bhagat.

Key areas covered included communication skills, aptitude preparation, technical competence, and understanding industry expectations. The session was attended by 58 students and coordinated by Prof. Z. Z. Painter and Prof. J. B. Trivedi.



Expert Lecture on “Shaping Careers: Expert Insights on Placement Success”

The department hosted an expert session on 6th September 2025 focused on placement preparation. Shri Dharmendra Joshi, Director, Admint Admiserve Pvt. Ltd., shared practical strategies for excelling in campus placements and interviews.

Workshop on “Fire Safety First: Awareness and Preparedness Training”

A Fire Safety Awareness Workshop and Mock Drill was conducted on 26th August 2025. The session covered fire classifications (A, B, C, D, K), types of fire extinguishers, and their correct usage, followed by a live demonstration.

A total of 104 students participated. The workshop was coordinated by Prof. Sunil Patel along with student coordinators.



Workshop on “Origin for Data Analysis & Graphing”

The ChemSOFT Club conducted a workshop on 20th September 2025 introducing students to data analysis and scientific visualization using Origin software.

Mr. Parth J. Shah, Ph.D. Scholar at Indian Institute of Technology Gandhinagar, provided hands-on training in graphing, dataset organization, and plot customization.

A total of 48 students participated. The session was coordinated by Dr. Girish D. Vegad.



Workshop on “AutoCAD Essentials for Chemical Engineers”

The ChemSOFT Club organized a hands-on workshop on 6th September 2025 at the Computational Chemical Engineering Laboratory, VGEC.

Dr. Darshit Upadhyay, Assistant Professor at Nirma University, conducted training on 2D/3D drafting, modelling, dimensioning, and scaling using engineering design examples.

Forty students participated. The workshop was coordinated by Dr. Girish D. Vegad, Faculty Advisor – ChemSOFT Club.



Alumni Interaction Series

The Chemical Engineering Department of Vishwakarma Government Engineering College (VGEC) successfully organized a series of Alumni Interaction Sessions during July–November 2025 with the objective of strengthening industry-academia connections and guiding students in career planning, higher education, entrepreneurship, and interdisciplinary opportunities.

From Classrooms to Careers: Alumni Speak (8th July 2025)

The session featured **Mr. Raval Rishabh (Alumnus 2025)**, GMP Coordinator at Zydus Lifesciences Limited, and **Mr. Pathar Sagar**

(Alumnus 2025), Graduate Engineer Trainee at Adani Solar, Bhuj.

They shared insights on GMP practices, QA/QC workflows, renewable energy applications, and the transition from academics to industry. A total of 60 students participated.



Beyond the Degree: Real World Advice from Alumni (10th July 2025)

Mr. Manan Purohit (Alumnus 2025), Production Engineer at Jet Vacuum Systems Pvt. Ltd., discussed vacuum systems, fabrication techniques, thermal efficiency, and industrial standards. The session was attended by 34 students.



Strategies for Successful Campus Placement (31st July 2025)

Dr. Williams Koshy (Alumnus 2010), Assistant Professor at Government Engineering College, Bhuj, provided guidance on resume building, interview preparation, group discussions, and early career planning. The session witnessed participation from 55 students.



Cracking Campus Placement: An Alumni Perspective (31st July 2025)

Mr. Rajdip Vadhiya (Alumnus 2025), Graduate Engineer Trainee at Reliance Industries Limited, Jamnagar, shared his placement journey and strategies for technical and HR interviews. A total of 50 students attended.





Sustainable Futures: Harnessing Renewable Energy for a Greener Tomorrow (3rd September 2025)

Dr. Bhavesh Patel (Alumnus 2008), Director – Divakaram Enterprise and Vice President (VAA), discussed renewable energy technologies, sustainability trends, and career prospects in clean energy. A total of 55 students participated.



Unlocking Opportunities in Research and Postgraduate Education (5th August 2025)

Ms. Parveen Dalal (Alumna 2007), Ph.D. Scholar at Ahmedabad University, guided students on postgraduate studies, research careers, scholarships, and building a strong academic profile. The session was attended by 65 students.



Preparation Campus Placement, CBT & Interview (4th September 2025)

Ms. Nikita Makwana and Mr. Kalash Shah (Alumnus 2023) shared practical strategies for aptitude tests, interviews, resume preparation, and group discussions, enhancing students' placement readiness.



Bridging Engineering and Finance: A Journey from Projects to Financial Strategy (13th November 2025)

Under the banner of the Institution of Engineers (India) Students' Chapter, **Mr. Rajiv Ranjan (Alumnus 2007)**, Head & Principal Officer – Education Loans at Zincmoney Finance IFSC Pvt. Ltd., highlighted interdisciplinary career pathways in banking and fintech, emphasizing analytics, automation, and financial risk evaluation. The session was attended by 65 students.



Visit to Ahmedabad International Book Festival 2025

On 17th November 2025, the department organized a student visit to the Ahmedabad International Book Festival 2025 held at Sabarmati Riverfront Event Centre.

A total of 26 students participated in the visit, coordinated by Dr. Sonal Prajapati and Prof. Jay Trivedi. The festival provided exposure to diverse academic, technical, and literary resources, encouraging reading habits, curiosity, and intellectual growth beyond the classroom.



All sessions were effectively coordinated by the faculty members of the Chemical Engineering Department and received enthusiastic participation from students. The Alumni Interaction Series served as a valuable platform for mentoring, networking, and professional development.

Teachers' Day 2025: Celebrating Educators

The Chemical Engineering Department of Vishwakarma Government Engineering College (VGEC) celebrated Teachers' Day on 4th September 2025 with great enthusiasm and gratitude. The occasion honoured the invaluable contributions of faculty members in shaping students' academic and professional journeys. The celebration reflected deep respect and appreciation for teachers as mentors, guides, and constant sources of inspiration.

Visit to Swadesotsav 2025 at GMDC Ground

Students of the department attended Swadesotsav 2025 organized at GMDC Ground.

The event showcased India's rich heritage, indigenous products, innovative technologies, and sustainable practices presented by various organizations and startups. The visit helped students understand the importance of self-reliance, entrepreneurship, and the vision of "Vocal for Local."



Chem-Clash 2K25: Technical Quiz on National Engineer's Day

On National Engineer's Day (15th September 2025), the Chemical Engineering Department of Vishwakarma Government Engineering College organized a technical quiz competition titled "Chem-Clash 2K25."

The event aimed to strengthen students' technical knowledge, analytical thinking, and problem-solving abilities in core chemical engineering subjects. It was coordinated by Prof. Zoher Painter and Dr. Ujvala Christian and witnessed enthusiastic student participation.



Visit to Start-Up Conclave at Mahatma Mandir Students also attended the Start-Up Conclave on 24th September 2025 at Mahatma Mandir

The conclave served as a dynamic platform for exposure to entrepreneurship, innovation, and emerging start-up ecosystems, motivating students to explore business and technology-driven career paths.



These activities reflect the department's continuous efforts to promote holistic development through academic engagement, cultural exposure, technical excellence, and entrepreneurial awareness.

"The problem is not to find the answer, it's to face the answer."



Dr. Beena K Acharya

- Mentoring SSIP PoCs “Evaporative Air Cooler”
- Fund Sanctioned: Rs. 25,000

Dr. Hiral Pandya

- Mentoring SSIP PoCs “Trans-esterification of Waste Cooking Oil Using a Homogeneous Catalyst Methane Sulphonic Acid”
- Fund Sanctioned: Rs. 1,20,000

Dr. Sonal. B. Prajapati

- Mentoring SSIP PoCs “V-Chem Atmospheric Water Generator”
- Fund Sanctioned: Rs. 38,700

Dr. Ujvala Christian

- Mentoring SSIP PoCs “Developing a Data Acquisition System for Chemical Kinetics Studies”
- Fund Sanctioned: Rs. 50,000

*Where silence meets the spark of thought,
A world of steel and dreams is wrought.
With compass, code, and steady hand,
We shape ideas to boldly stand.
In every bridge and circuit bright,
There lives a touch of artful light.
For logic builds the sturdy frame,
But vision gives the work its flame.
Where art and engineering blend as one,
The future’s masterpiece is begun.*

Dr. Sonal Prajapati of the Chemical Engineering Department, Vishwakarma Government Engineering College, has published a research paper titled “**Dehalogenation of Pyrolytic Oil from Printed Circuit Boards with Rice Husk**” in the Journal of Material Cycles and Waste Management, Springer, Volume 27, pages 4418–4436 (2025). The paper was published on 29th August 2025.

The study demonstrates that co-pyrolysis of waste printed circuit boards (PCBs) with rice husk significantly reduces hazardous halogenated compounds while enhancing the yield of valuable oil, contributing to sustainable energy production and material recovery.

Dr. F. J. Patel has successfully published an international research paper titled “**Analysis of HC and CO Pollutants in Relation to the Physical Properties of Noble Metal Catalysts under Varying Engine Conditions**” in the Journal of Mines, Metals & Fuels (Scopus Indexed, ISSN 0022-2755) on 9th October 2025.

The research highlights that hydrocarbon (HC) and carbon monoxide (CO) emissions are significantly higher at low engine load and speed due to incomplete combustion—conditions commonly observed in urban driving. The findings contribute to improving emission control strategies and catalyst performance optimization.

FACULTY DEVELOPMENT & INDUSTRIAL TRAINING

Dr. U. P. Christian of the Chemical Engineering Department, Vishwakarma Government Engineering College, participated in a one-week Short-Term Training Program (STTP) titled “**Electrifying the Future: A Comprehensive Exploration of Electric Vehicles and Hydrogen Fuel Cells**” from 28th July 2025 to 1st August 2025.

The program was sponsored by Gujarat Council on Science and Technology (GUJCOST) and approved by the Directorate of Technical Education, Gujarat (DTE). It was organized by the Electrical Engineering Department of VGEC. The STTP focused on emerging technologies in electric vehicles (EVs) and hydrogen fuel cells, enhancing knowledge in sustainable energy systems and future mobility solutions.

Prof. J. B. Trivedi successfully completed a two-week **Industrial Training at Macro Polymers Pvt. Ltd.** from 27th October to 10th November 2025.

The training provided valuable hands-on exposure to resin manufacturing processes, strengthening practical understanding of synthetic resins and allied polymer industries. This industrial engagement contributes to enriching classroom teaching with real-world industrial insights.

These faculty development initiatives reflect the department’s commitment to continuous learning, industry collaboration, and academic excellence.

PROFESSIONAL DEVELOPMENT: INSIGHTS INTO STUDENT INDUSTRIAL TRAINING/INTERNSHIP

The Chemical Engineering Department of Vishwakarma Government Engineering College promotes student industrial training and internships to bridge the gap between academic learning and real-world industry practices. These experiences enhance technical skills, professional competence, and career readiness through hands-on exposure to industrial environments.

Enrolment No.	Name of the student	Industry Name
210170105063	Vaibhav Dogra	The Green Environment Services Co-op. Soc. Ltd., Vatva
220170105001	Amipara Vikas	Vipul industry, Khambhat
220170105002	Barai Dev	Meghamai Organics Ltd, Ahmedabad
220170105003	Baria Pravinbhai	Arysta Lifescience India Pvt. Ltd. (UPL OPENAG), Gujarat
220170105004	Bhanderi Happin	Meghamai Organics Ltd, Ahmedabad
220170105005	Bharti Shikhar	Krishna Chemicals, Ahmedabad
220170105006	Bhoi Darpan	Arysta Lifescience India Pvt. Ltd. (UPL OPENAG), Gujarat
220170105007	Chauhan Mitesh	Vipul industry, Khambhat
220170105009	Chopda Sachin	Nayara Energy, Jamnagar
220170105012	Dubariya Mihir	Dhruv Chem Industries, Chatral
220170105013	Garv Sagar	ONGC, Ahmedabad
220170105014	Gohil Hitenkumar	Gujarat Florochemicals Limited, Dahej
220170105015	Gondaliya Rushi	IFFCO, Kalol
220170105016	Gorasiya Rut	Meghamai Organics Ltd, Ahmedabad

220170105017	Goswami Shlok	IFFCO, Kalol	220170105044	Patel Raj	Deepak Nitrite, Vadodara
220170105018	Jadav Jinayrajsinh	Narayan Industries, Naroda	220170105047	Piprotar Jevin	DCW LTD, Dhangadhra
220170105020	Kachhatiya Anurag	Nayara Energy, Jamnagar	220170105049	Prajapati Ajaykumar	SRP MINERALS, Bhuj
220170105021	Kalariya Nilkumar	Medicina Lyfe Care, Ahmedabad	220170105050	Prajapati Deepkumar	Raj Agro, Bavla
220170105022	Kamdi Tejas	Harsh Organo, Ahmedabad	220170105051	Prajapati Dhvani	Bhagvati Pharmachem, Balisana
220170105023	Karan Khatri	Bodal Chemicals Limited, Vadodara	220170105052	Prajapati Dipeshkumar	Vipul industry, Khambhat
220170105024	Kasotiya Mayur	The Green Environment Services Co-op. Soc. Ltd., Vatva	220170105053	Prajapati Jeemil	IFFCO, Kalol
220170105025	Kateshiya Vivek	Nayara energy, Vadinar	220170105054	Prajapati Krunal	The Green Environment Services Co-op. Soc. Ltd., Vatva
220170105026	Makani Akshaykumar	Krishna chemicals, Ahmedabad	220170105055	Bhagat Prashantkumar	IFFCO, Kandla
220170105027	Malaviya Hit	Shree Ganesh Pharma, Rajkot	220170105056	Radadiya Om	The Green Environment Services Co-op. Soc. Ltd., Vatva
220170105028	Maru Bhagya	Goldstar Power Limited, Jamnagar	220170105057	Rajput Vikramsingh	Harsh Organo, Ahmedabad
220170105029	Memon Mohammad	Harsh Organo, Ahmedabad	220170105058	Rakholiya Daksh	Shiv chem industries, Naroda
220170105030	Nayak Harsh	Harsh Organo, Ahmedabad	220170105060	Rathod Mayurraj	The Green Environment Services Co-op. Soc. Ltd., Vatva
220170105031	Nayak Manav	IFFCO, Kalol	220170105062	Sakariya Neel	Krishna chemicals, Ahmedabad
220170105032	Odedara Ramaji	Meghamai Organics Ltd, Ahmedabad	220170105063	Sakariyani Arbaz	DCW LTD, Dhangadhra
220170105033	Padhiyar Preet	Amoli Organics Pvt Ltd., Vapi	220170105064	Manan Shah	UNITED CHEMIE, Ahmedabad
220170105034	Padhiyar Vipulkumar	Transpek Industry Ltd., Vadodara	220170105065	Shifa Siddiqui	Deo Piyu Industries, Ahmedabad
220170105035	Parmar Bhavesh	Goldstar Power Ltd., Jamnagar	220170105066	Sinha Shikha	Calibre Engineering Chemistry, Ahmedabad
220170105037	Parth Panchal	Deepak Nitrite, Vadodara	220170105067	Talpada Sunilkumar	Anand Milk Union Limited, Anand
220170105038	Patel Bansi	Bhagvati Pharmachem, Balisana	220170105069	Thaker Malhar	Royal Castor Products Ltd., Lalpur
220170105039	Patel Dhruval	Aneta Pharmaceuticals, Ahmedabad	220170105070	Vadher Kalpesh	GHCL, Sutrapada
220170105040	Patel Divyesh	Icon industries, Ankleshwar	220170105072	Vaghasiya Jenish	Shree Ganesh Pharma, Ahmedabad
220170105041	Patel Kunj	IFFCO, Kalol	220170105073	Vaghela Nandani	Meghamai Organics Ltd, Ahmedabad
220170105043	Patel Nityakumar	Aneta Pharmaceuticals, Ahmedabad			

220170105074	Vasani Daksh	Meghamai Organics Ltd, Ahmedabad
220170105075	Vishal Devendra	Aneta Pharmaceuticals, Ahmedabad
220170105076	V.M Achala	IOCL, Vadodara
220170105077	Yadav Rushirajsinh	Hindalco industry ltd. Dahej
220170105078	Kijali Musa Kamba	The Green Environment Services Co-op. Soc. Ltd., Vatva
230173105001	Aswar Divyarajsinh	Aneta Pharmaceutical, Ahmedabad
230173105002	Babariya Meet	Shiv chem industries, Naroda
230173105006	Gohel Aryan	IFFCO, Kalol
230173105008	Kanjariya Dhrumilkumar	Goldstar Power Limited, Jamnagar
230173105009	Nayi Dev	IFFCO, Kalol
230173105010	Parmar Krushnaraj	Aneta Pharmaceutical, Ahmedabad
230173105011	Patel Dhruv	IFFCO, Kalol
230173105013	Prajapati Dixit	IFFCO, Kalol
230173105014	Prajapati Shivam	L&T Energy Hydrocarbons, Surat
230173105017	Thaker Kandarp	Aneta Pharmaceuticals, Ahmedabad

*In halls where questions come alive,
Where logic helps bold dreams survive,
Young minds explore, create, and learn,
With endless passion deep inside they burn.*

*Not just in books, not just in class,
But in each challenge they surpass,
They see the world with thoughtful eyes,
Where every problem holds a prize.*

*With steady hands and vision clear,
They shape the tools that bring us near,
To safer roads and cleaner air,
To innovations everywhere.*

STUDENT PARTICIPATION

Joshi Darshan (230170105027)

Has participated in a sports event “GTU INTER COLLEGE TOURNAMENT” organized by Dalia Institute of Technology, Kanera at Dalia Institute of Technology, Kanera on 25th September 2025.

Bhavin Sonagara (240173105015)

Has successfully participated in the Quiz “TATA Crucible Campus Quiz 2025” organized by the Tata Group, conducted online on 27th November 2025.

Chuma E Njovu (230170105010)

Has participated in a Internship “Summer Research Internship” organized by Chemical engineering department, IIT ROPAR, conducted online from 15th May 2025 to 15th July 2025.

Chuma E Njovu (230170105010)

Has successfully participated in the E-learning course “Developing Skills for Women Leadership in Climate Change” organized by United Nations Institute for training and research, conducted online on 18th December 2025.

Khushi Kasundra (240173105007)

Vaghari Tejal (230170105072)

Has participated in a Seminar on “Origin Essential for Chemical Engineers” organized by ChemSOFT Club, VGEC on 20th September 2025.

Panchal Milin (230170105039)

Has participated in a TRAINING on “VOCATIONAL TRAINING” organized by IFFCO at IFFCO PLANT, KALOL on 22nd December 2025.

Yash Jayantibhai Vasava (230170105078)

Has participated in a Workshop on “Launch of ChemSOFT Club & Workshop on AutoCAD

Essentials for Chemical Engineers” organized by ChemSOFT Club, VGEC on 6th September 2025.

Joshi Darshan (230170105027)
Vaghari Tejal (230170105072)

Has participated in a Hands-on Workshop on “Launch of ChemSOFT Club & Workshop on AutoCAD Essentials for Chemical Engineers” organized by ChemSOFT Club, VGEC on 6th September 2025.

Patel Dhyey (240170105048)
Vadhvana Priyank (240170105071)
Patel Prit Hetalkumar (240170105055)
Parthav Patel (240170105047)
Mahirbhai Halvadia (240170105015)

Have successfully participated in the workshop “Unleashing the Power of AI Agents” organized by IBM Skills build at VGEC Campus on 2^{6th} August 2025.

Thakor Manojkumar (240170105068)

Has successfully participated in the Quiz “India-AI Impact Summit Explorer Quiz” organized by India AI Mission of the Meity and MyGov conducted online on 30th December 2025.

Jadav Parthkumar (250173105003)
Patel Vedkumar (240170105077)

Has participated in a Membership program “IChE” organized by IChE, conducted online on 15th September 2025.

Krishna Prajapati (240170105033)

Has participated in a Workshop on “AutoCAD Essentials for a Chemical Engineers” organized by ChemSOFT Club, VGEC on 6th October 2025.

Mahirbhai Halvadia (240170105015)

Has participated in a Sports event “GTU Zone-2 Cricket Tournament” organized by Gujarat Technological University at Vadasma from 10th September 2025 to 30th September 2025.

Thakor Manojkumar (240170105068)

Has successfully participated in the Quiz “Quiz on Consumer Awareness” organized by Department of Consumer Affairs conducted online on 30th December 2025.

Patel Preet (250173105008)
Thakkar Heer (240170105067)
Patel Princekumar (240170105054)
Panchal Samarth (240170105045)
Barot Harshit (240170105003)
Patel Preet (250173105008)

Have participated in a Workshop on “AutoCAD Essential for Chemical Engineers” organized by ChemSOFT Club, VGEC on 6th September 2025.

Gadhethariya Dax (240170105012)

Has participated in a Workshop on “The Data Science Chem Workshop” organized by PDEU chemical engineering department on 8th November 2025.

Thakor Manojkumar (240170105068)

Has successfully participated in the Quiz “Quiz on Policing and Law Enforcement” organized by The Goa Police and MyGov conducted online on 30th December 2025.

*Blueprints drawn with thoughtful care,
Turning dreams to structures rare.
Solving problems, day and night,
Engineers bring ideas to light.*

*With science, skill, and vision clear,
They shape the future year by year.*

Balar Parth (240170105001)
Mendapara Het (240170105042)
Dave Jay (240170105021)
Khunt Shubham (240170105030)
Patel Kushalkumar (240170105051)
Gadhavi Dhyey (240170105011)
Heet Sapariya (240170105017)
Gadhethariya Dax (240170105012)

Have participated in a Membership program “Indian Institute of Chemical Engineering” organized by IChE at VGEC conducted online on 6th August 2025.

Patel Princekumar (240170105054)
Krishna Prajapati (240170105033)
Panchal Samarth (240170105045)
Gadhethariya Dax (240170105012)

Have participated in a Workshop on “Origin Essentials for Chemical Engineers” organized by ChemSOFT Club, VGEC on 20th September 2025.

Thakor Manojkumar (240170105068)

Has successfully participated in the Quiz “Vande Mataram - 150 Years Quiz” organized by Ministry of Culture and MyGov, conducted online on 30th December 2025.

Barot Dhyan (240170105008)

Has successfully participated in the Quiz “Energy Efficiency for Sustainable India” organized by Shri Vishal Kapoor conducted online on 26th June 2025.

Nilesh Joshi (240173105012)

Has participated in a Training on “Vocational Training” organized by Indian Farmers Fertilizer Cooperative Limited at IFFCO, Kalol on 22nd December 2025.

Patel Dhyey (240170105048)

Has successfully participated in the Quiz “IICHE Students chapter” organized by IICHE student chapter at VGEC on 15th September 2025.”

Khunt Shubham (240170105030)

Has successfully participated in the Quiz “IBM SKILL BUILD” organized by VGEC, Chandkheda conducted online on 26th August 2025.

Findoliya Dhruvish (240170105010)

Gadhethariya Dax (240170105012)

Patel Princekumar (240170105054)

Patel Dhyey (240170105048)

Dobaraiya smit (230170105015)

Rajput Bholasinh (230170105064)

Janviben Doshi (230170105016)

Have successfully participated in the technical quiz “Chem-Clash-2k25” organized by Dr. U.P. Christian and conducted online on 15th September 2025.

Rajput Vikramsingh (220170105057)

Has successfully completed an Industrial Internship Program on “Recent Advances in Petroleum Refinery Engineering (RAPRE)”, organized by Terra-Green Technologies Pvt. Ltd. in association with the Centre for Education Innovation and Entrepreneurship, Kolkata, from 25th May 2025 - 26th July 2025. He was awarded Grade A (90%–100%) for his outstanding performance.

Shifa Siddiqui (220170105065)

Has successfully completed the Internship Programme on Petroleum Refinery Engineering, organized by IChE Training Institute (IChE-TI), Jadavpur University Campus, Kolkata, from 05th June 2025 - 27th July 2025, and secured an A+ Grade (90%–100%).

Jani Shreyansh (230170105023)

Has successfully participated in the One-Week Online Workshop on “Computational Analysis on Electronics, Mechanical and Chemical Systems using ANSYS”, organized by the Department of Electronics, Mechanical and Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, from 21st July - 25th July 2025.

Chuma E. Njovu (230170105010)

Has successfully completed a Summer Internship on the topic “Process Engineering Analysis of Key Petrochemical Processes relevant for Africa” under the mentorship of Dr. Asad Hasan Sahir, Assistant Professor, Department of Chemical Engineering, IIT Ropar, from 15th May - 15th July 2025. She demonstrated excellent performance and dedication throughout the internship.

SPORTS CORNER

Shlok Goswami (220170105017)

Jeet Dhameliya (230170105011)

Divyesh Patel (220170105040)

Students from the Chemical Engineering Department were proud team members of the VGEC Kabaddi Team who emerged as winners of the GTU Zonal Level Kabaddi Tournament (Zone-2, Mehsana) held on 6th August 2025.



“Courage is choosing to move forward, even when fear walks beside you”

Shlok Goswami (220170105017)

Jeet Dhameliya (230170105011)

Selected for all University Kabaddi Tournament starting from 1st – 6th October 2025.



Mahirbhai Halvadia (240170105015)

Achieved a remarkable accomplishment by securing the Winner position in the GTU Zone-2 Cricket Tournament, held from 10th – 20th September 2025 at Shri Satsangi Saketdham Ram Ashram Group of Institutions, Vadasma, at the Zonal Level.



“Innovation begins where curiosity meets engineering.”

Nirali Gondaliya (240170105014)

Achieved a proud milestone by emerging as one of the winners of the Adani Ahmedabad Marathon, powered by Adani Ambuja Cement, held on 30th November 2025. She successfully completed the Full Marathon (42.195 km), demonstrating exceptional endurance, determination, and physical fitness.



*Run with a heart that refuses to tire,
Play with a soul that is set on fire.
Sweat is the proof of a dream in motion,
Effort the language of true devotion.
Fall if you must, but rise up strong,
Every defeat makes courage long.
Cheer for the team, let spirit roar,
Push your limits, then push once more.
Victory shines where passion starts,
Sports build strength in bodies and hearts.*

CREATIVE CORNER



Jenisha Hemnani (23170105020)

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Dr. Sonal. S. Bhagat

EDITORIAL TEAM

Dr. Femina J. Patel
(Head of the Department)

Dr. Hiral N. Pandya
(Newsletter team Coordinator)

Dr. Sonal B. Bhagat
(Newsletter team Coordinator)

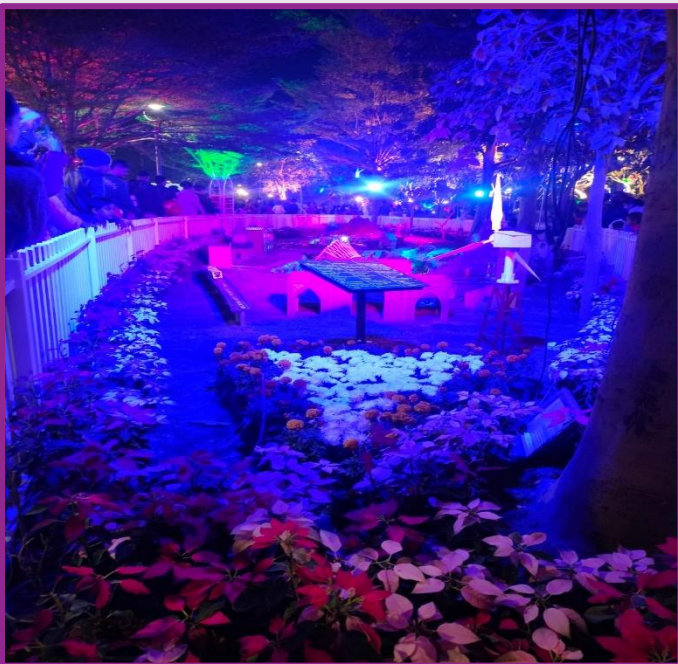
Student Team

Vedansh Vaidya (230170105073)

Jems Vaishnav (230170105074)

Jenisha Hemnani (23170105020)

Nimi Jha (23170105026)



Nizamuddin Idrisi (240173105013)