

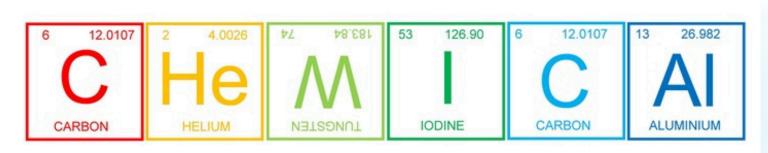


# V.V.P.

# ENGINEERING COLLEGE

AICTE Approved & Affiliated to GTU, Ahmedabad

# Jan-June 2024-Vol. 12



# ENGINEERING DEPARTMENT







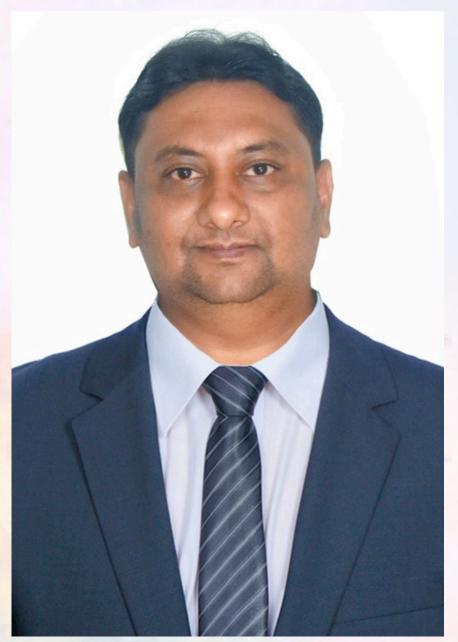
# V.V.P. Management

- 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. Tejas Patalia

Welcome to V.V.P. Engineering College, a world class center for excellence in technical education. We are a leading technological institute of India, a home to a wide range of academic departments, providing best education in the major areas of technology and services in the area of research and consultancy.

We are proud and distinct through our global technical perspective, cosmopolitan character and being deeply rooted in the high Indian traditional culture, heritage and values. You would enjoy the challenges and opportunities we offer.

We look forwards to welcoming the engineering aspirants to a place of genuine intellectual excellence for an unforgettable simulating experience in the world of existing and emerging technologies, Welcome back to Future....

#### 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. Engineeering College keeps no stone upturned 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

nsforming

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 extracurricular 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. Piyush Vanzara

Chemical Engineering Department of V.V.P Engineering College, Rajkot is a pioneer department in Saurashtra - Kutch region functions with the motto of driving the process industries by producing the quality minds and believe in inculcating moral value among pupil.

The department also takes pride in being nearest to the world's largest chemical industry, Reliance Industries Limited, Jamnagar.

The department is well collabrated with industries for Environment Audit (NABL accredited and GPCB recognised schedule-I auditor), Extended in house learning program, Faculty Exchange Program, Expert talk, Industrial visits, Research project, Campus placement etc. The Department is also blessed with experienced faculty member holding Ph.D and Master Degree from Reputed Universities of the country. Proud alumni of the department are also shining in a variety of sectors all across the globe.

I Welcome you all to one of the best Chemical Engineering Department of Gujarat which is the hub of chemical industry in the country.

# 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:

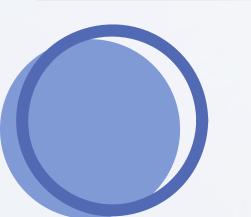
- Apply knowledge of basic sciences, unit operations and unit processes to identify and solve problems of chemical and allied industries.
- Design innovative, economic, greener and safer processes and equipment using fundamentals of thermodynamics, kinetics, materials and energy balances.
- Model, simulate,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

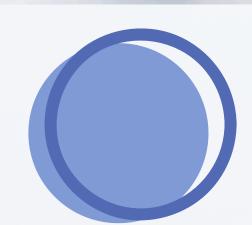
# INDEX



PLACEMENT
RESULT
DEPT ACHIEVEMENTS
EXPERT LECTURES
SKILL DEVELOPMENT PROGRAMME
PARENTS MEET
INDUSTRIAL VISIT



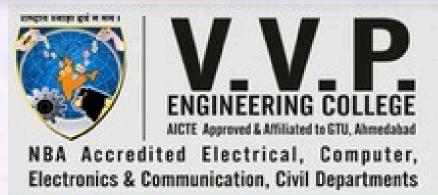






# **GLIMPSES OF PLACEMENT 2024**





Placement - 2024

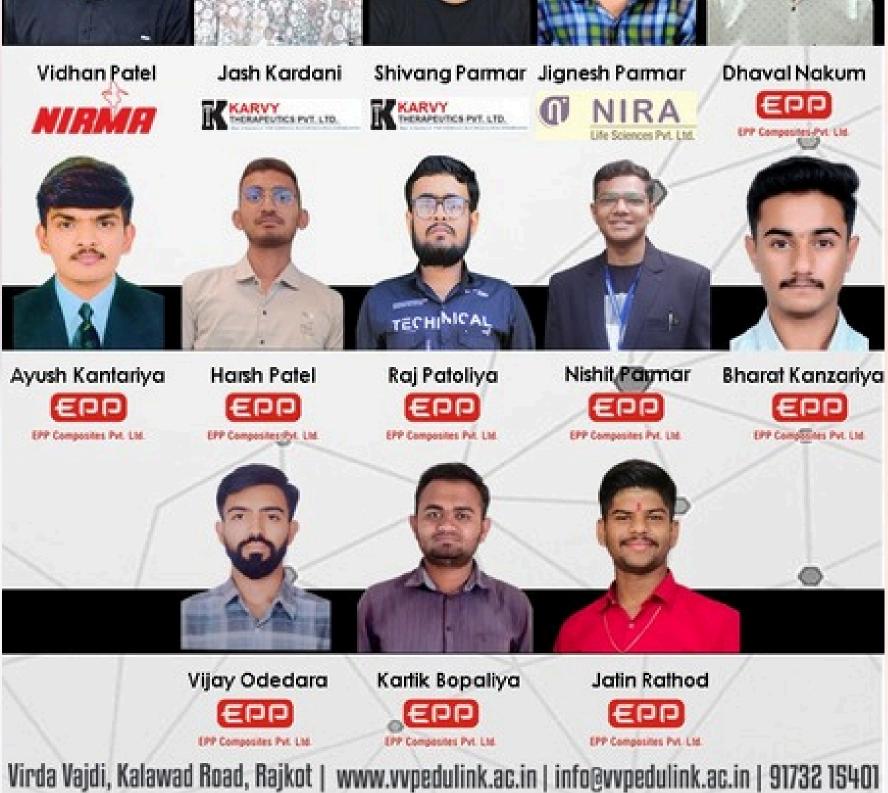
#### **Chemical Engineering Department**





Congratulation





# JOB FAIR 2024







રાજકોટ તા.૧૫ રાજકોટની વી. વી. પી. એન્જિનિયરિંગ કોલેજ ખાતે કેમીકલ ઇજનેરી વિભાગનાં વિદ્યાર્થીઓ માટે જોબફેરનું આયોજન કરવામાં આવ્યું હતું. આ જોબફેરમાં નામાંકીત કંપનીઓ જેવી કે ઇ.પી.પી. કમ્પોઝાઇટ પ્રાઇવેટ લિમિટેડ, સામ ફાઇન ઓ કેમ લિમિટેડ, એસ.એન.જે. લેબ પ્રાઇવેટ લિમિટેડ, સુગમ પોલિટેક પ્રાઇવેટ લિમિટેડ, કાર્વી થેરાપ્યુટીક્સ પ્રાઇવેટ લિમિટેડ, રોડિયમ માસ્ટર્સ, મેગ્પાઇ કેમીકલ્સ, એન્ડોક લાઈફકેર પ્રાઇવેટ લિમિટેડ, આશુતોષ રબર પ્રાઇવેટ લિમિટેડ વગેરે કંપનીઓએ ભાગ લીધેલ જેમાં કુલ ૨૨ જેટલાં વિદ્યાર્થીઓ પસંદગી પામેલ હતા.

અત્રે ઉદ્ઘેખનીય છે કે, ચાલુ



એકે ડમીક વર્ષમાં જ કે મીકલ વિભાગનાં ૬ વિદ્યાર્થીઓ છ. એચ. સી. એલ., નિરમા કેમિકલ પ્રાઇવેટ લિમિટેડ, એલેમ્બિક ફાર્માસ્યુટિકલ ઇન્ડસ્ટ્રીઝ માં પસંદગી પામેલ છે. આમ જોતા વર્ષ દરમિયાન વી.વી.પી. કે મિકલ વિભાગના કુલ ૨૮ વિદ્યાર્થીઓ ચાલુ અભ્યાસે જ નોકરી મેળવવામાં સફળ રહ્યા છે.

આ જોબફેરને સફળ બનાવવા માટે વી.વી.પી. નાપ્રિન્સીપાલ શ્રી ડો. તેજસભાઇ પાટલીયાના માર્ગદર્શન હેઠળ કેમીકલ વિભાગનાં વડાશ્રી પ્રો. ડો. પિયુ ષભાઇ વણઝારા તથા વિભાગના તમામ કર્મચારીઓએ ભારે જહેમત ઉઠાવી હતી. આ તકે સંસ્થાના ટ્રસ્ટીઓ શ્રીકૌશિકભાઇ શુકલ, ડો. સંજીવભાઇ ઓઝા, શ્રી હર્ષલભાઇ મણીયાર, ડો. નરેન્દ્રભાઇ દવેએ તમામ વિદ્યાર્થીઓ અને કર્મચારીગણને શુભેચ્છા પાઠવી હતી.







Chemical **Engineering** Department

#### **Our Esteemed Recruiters**



























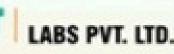




















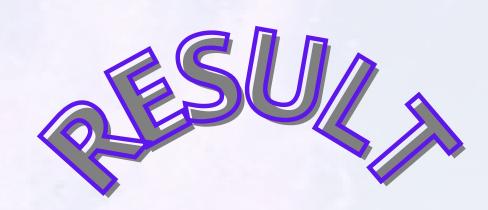






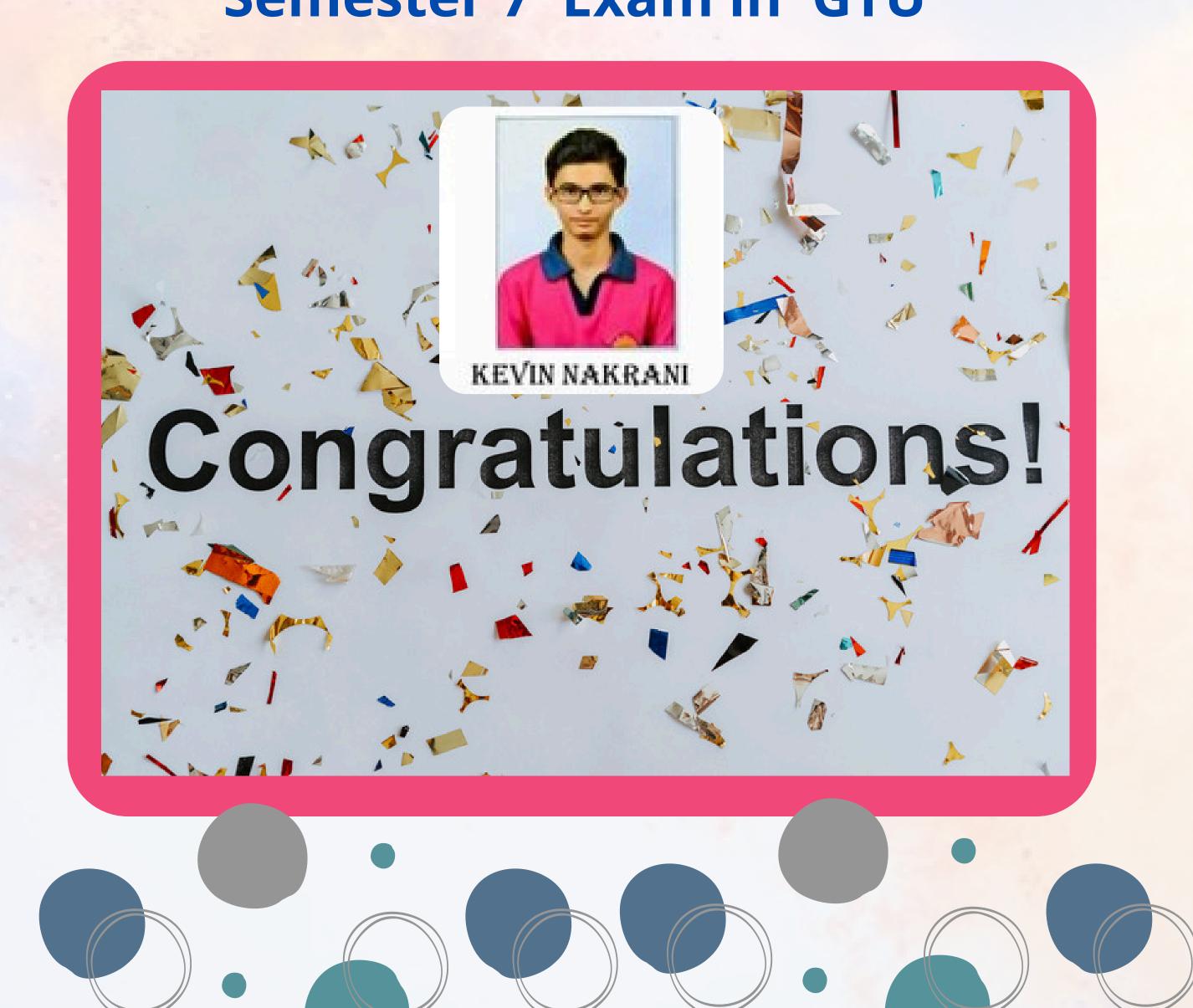


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# Mr. Kevin Nakrani secured 8 Rank (SPI Wise) in Semester 7 Exam in GTU







#### V.V.P. Engineering College

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#### **NBA** Accredited in

BE - Electrical, Civil, Computer, Electronics & Communication Engineering Departments

#### CHEMICAL ENGINEERING DEPARTMENT



**GATE 2024** 



Marks out of 100 :- 26.67

Shyam B. Garala Marks out of 100 :- 44.67 All India Rank :- 210 GATE Score :- 640

All India Rank :- 1265 GATE Score :- 375 Batch - 2023 heartily Congratulations

for Qualifying GATE - 2024

Batch - 2021







Ms. Cherish Savsani (7th Sem Student)

(Chem+Elect)Team Runners Up in Basketball and Team Champion in Volleyball











#### Faculty Paper Publication/Presentation

Name of Faculty	Other Authors	Title	Journal (Month_Year) / Conference (Date)
Dr. Piyush B. Vanzara	Dr. Ashish Gujarathi, Swaprabha Patel	Multi-objective Optimization Study of Industrial Natural Gas Sweetening Process	4th International Graduate Studies Congress (IGSCONG'24), 5-8 June 2024
	Kajal Sareriya, Subarna Maiti	Optimisation of Eucalyptus essential oil extraction by applying response surface methodology in traditional distillation and its adaption to solar thermal process	Sustainable Energy Research (2024)
	Rakesh Kumar Ameta, Shantilal S. Mehetre, Abhishek Chandra, Kunjal Soni, Keshav Lalit Ameta, Sushil Korgaokar	Chapter 12 - Hexagonal boron nitride for bone tissue engineering application (Book Chapter)	Hexagonal Boron Nitride Synthesis, Properties, and Applications Micro and Nano Technologies 7th June 2024
	Kunjal Soni Chetan B. Sangani, Sushil Korgaokar, Mohd Afzal, Abdullah Alarifi, Rakesh Kumar Ameta, Yong-Tao Duan	HSA, free Radicals, and antibacterial interaction with ferrous oxide nanoparticles synthesized from Amorphophallus paeoniifolius	Journal of Molecular Liquids, Volume 403, 1 June 2024, 124903







#### Faculty Paper Publication/Presentation

Name of Faculty	Other Authors	Title	Journal (Month_Year) / Conference (Date)
Dr. Piyush B. Vanzara	Arun Kumar Subramani, Reshma Ramachandr a, Sachin Thote, Vishnupriya Govindaraj, Ritu Raval, Keyur Raval	Engineering a recombinant chitinase from the marine bacterium Bacillus aryabhattai with targeted activity on insoluble crystalline chitin for chitin oligomer production	Int J Biol Macromol. 2024 Apr
	Rakesh Kumar Ameta, Parth Malik, Sushil Korgaokar, Kunjal Soni	Contemporary advances in the plant resources mediated synthesis of copper oxide nanoparticles: Insights on structure-function-workability understanding	Plant Nano Biology, February 2024
Dr. Vyomesh M. Parsana	Priyank Khirsariya, Kedar Joshi	Measurement & correlation of isobaric vapor-liquid equilibrium (VLE) data of methyl tert-butyl ether (MTBE) + acetic acid (AA) system	Chemical Data Collections Elsevier, Science Direct March 21, 2024
	Priyank Khirsariya, Kedar Joshi	Computation of Isobaric Vapor-Liquid Equilibrium (VLE) Data of Methyl Tert- Butyl Ether (MTBE) + Acetic Acid (AA) System	Physical Chemistry Research Iranian Chemical Society Jan 2024
Dr Sushil Korgaokar	Rakesh Kumar Ameta, Shantilal Mehetre	CH 12 - Hexagonal boron nitride for bone tissue engineering application	Elsevier Science Direct; May 24



#### Faculty Paper Publication/Presentation

Name of Faculty	Other Authors	Title	Journal (Month_Year) / Conference (Date)
Mr. Jilesh M. Pandya		Cleaner Production & Cleaner Technologies as a remedial measure for mitigating climate change	International Journal of trend in Research & Development, January - March 2024
Ajinkya M. Patwardhan	Vatsal Agravat, Hardik Movaliya	Simulation Studies For Heuristic Optimization Of Heat Integrated Reactive Distillation Process For Isoamyl Acetate (laac) Synthesis	IJCRT, Vol12, issue 3
Priyank Khirsariya	Dr. Vyomesh M. Parsana, Kedar Joshi	Measurement & correlation of isobaric vapor-liquid equilibrium (VLE) data of methyl tert-butyl ether (MTBE) + acetic acid (AA) system	Elsevier, Science Direct March 21, 2024
	Dr. Vyomesh M. Parsana, Kedar Joshi	Computation of Isobaric Vapor-Liquid Equilibrium (VLE) Data of Methyl Tert- Butyl Ether (MTBE) + Acetic Acid (AA) System	Iranian Chemical Society Jan 2024
Pratik K. Koradiya -		Forward Osmosis an Emerging Technology for Dairy Effluent Treatment	International Conference on Emerging Trends & Contemporary Practices - ICETCP 2024" on February 9th-10th, 2024.
Rahul G. Vaidya	Dr. Dipesh Kundaliya, Deven Raval, Ramesh Ravat, Prof. J.P. Joshi	Energy Conservation Opportunity In Forging Plant With A Practice Of Energy Audit	2024 IJCRT   Volume 12, Issue 3 March 2024



• Dr. Piyush B. Vanzara participated in the Industrial Conclave on "Sustainable Chemical Processes for API and Key intermediates: Affordable and Recyclabe Catalytic Options" jointly organised by the Indian Society of Chemists and Biologists (Lucknow), Catalysis society of India (Mumbai) & Environmental Research foundation of India (Rajkot) held at Rajkot, Gujarat on March 8, 2024

- Dr. Darshana Bhatti attended the 12-week Swayam course from January-April 2024 on "Introduction to Intellectual Property" and Passed the proctored exam with 70%.
- Dr. Darshana Bhatti has attended the Professional Development Program on "Disaster Management" from 27/05/24 to 31/05/24 organized by NITTTR, Chennai.
- She also attended the seminar on <u>Remote sensing Applications for</u> <u>climate change</u> Organized by EC dept, VVPEC, Rajkot

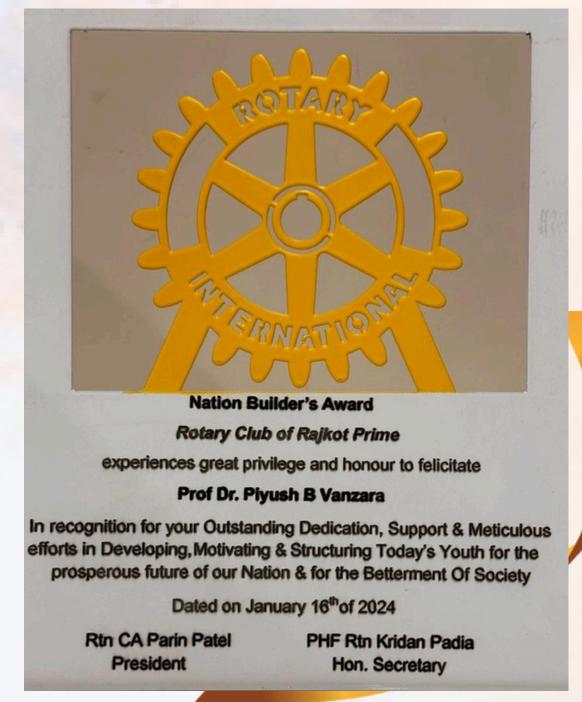




 Dr. Piyush B. Vanzara participated in CSIR-New Delhi sponsored one day National Seminar on "Remote Sensing Applications for Climate Change" organised by EC dept, of V.V.P. Engineering College, Rajkot on 17/02/2024.

 Dr. Piyush B. Vanzara was felicitated and honored with Nation Builder's Award for "Outstanding dedication support & Meticulous efforts in developing, motivating & structuring today's youth for the prosperous future of our nation & for the betterment of society" by Rotary Club of Rajkot Prime on 16/01/2024.









• Dr Sushil S. Korgaokar and Mr. Rahul G. Vaidya participated in CSIR-New Delhi sponsored one day National Seminar on "Remote Sensing Applications for Climate Change" organised by EC dept, of V.V.P. Engineering College, Rajkot on 17/02/2024.

 Dr. Vyomesh M. Parsana and Mr. Priyank Khirsariya attended the webinar on <u>NEP 2020 Orientation & Sensitization Programme</u> under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 13/05/2024 to 21/05/2024



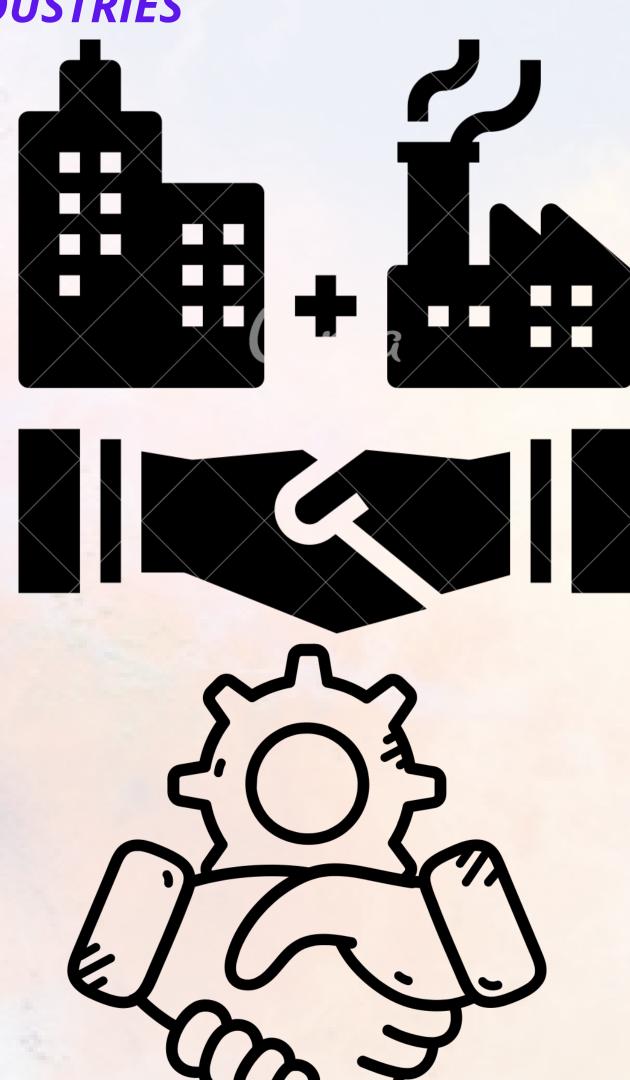
 Mrs. Dhara A. Upadhyay attended online FDP on <u>energy storage</u> <u>material and technology</u>, organised at NITTTR, Chandigarh from 6/5/2024 to 13/5/2024





MOU SIGNED BETWEEN CHEMICAL ENGINEERING
DEPARTMENT OF VVP ENGINEERING COLLEGE RAJKOT
AND DIFFERENT INDUSTRIES

AND DIFFERENT IND
NAME OF COMPANY
U-FRESH MILK AND FOOD PRODUCTS PVT LTD.
SUGAM POLYTECH PVT LTD
MEGPIE CHEMICALS
SARTHI CHEM PVT LTD
GIRIRAJ MILK PRODUCTS PVT LTD
ASHUTOSH RUBBER PVT LTD
ROYAL PACKAGING RAJKOT
RISTON PAPER MILL PVT LTD
RHODIUM MASTER
EPP COMPOSITES PVT LTD
BLUE SAPPHIRE HEALTH SOLUTIONS LLP



- MoU is signed for industrial visit and training, guest lectures and placement of students
- Faculty Exchange Program between V.V.P. Engineering College and ESSAR Oil ltd. Jamnagar (Expert lectures by ESSAR Officials for V.V.P. students to impart industrial aspects & Expert Lectures by V.V.P. faculties to deliver theoretical aspects to ESSAR employees) (continued since July 2016).

# Expert Lectures

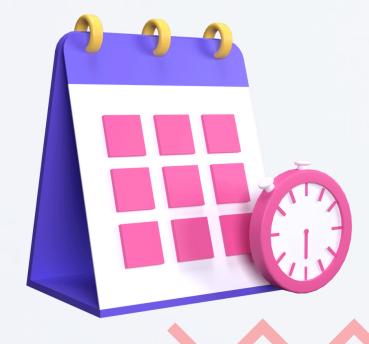


"SI Units" and "Air Pollution and its Consequences" by Prof. J. N. Joshi

(Expert Committee Member GPCB and Retired Professor, L. D. Engg. College)



- At the age of 85 years Prof. J. N.
   Joshi have achieved many benchmarks
- Worked as Prof. in L. D. Engineering College Ahmedabad, and service as Officer in GPCB.
- In his session, he explained about various entities like Length, Area, Volume, Velocity, Force, Pressure, Acceleration, Temperature, Time, Flow rate, Energy etc, their SI Units, their Symbols, their Magnitudes, their applications and their importance.
- Also discussed about Green House Gas, Concepts of Photo Synthesis, different Air pollutants their sources and remedies to control them were explained in a simple and lucid manner.



**DATE: 7/2/2024** 

TIME: 10:00 am to 11:20 am

**VENUE: Class Room G-03** 

**TARGETED AUDIENCE: Sem 4, 6** 

**Chemical Engineering Department Students** 



# Expert Lectures



"Study Abroad Opportunities" by Mr. Ajesh Kamania (Mentor and Guide at K7 International, Rajkot)



- Mr. Ajesh in his talk introduced about K7 International, Rajkot.
- He highlighted below points regarding abroad study
- Possibilities for Pursuing a Bachelor's OR Master's Degree Abroad
- How to choose a country to study abroad?
- Comparison between USA, Canada and Germany
- Requirements for admission in Germany
- Best University for specific branches
- How Much Does it Cost to Study in Abroad?
- Minimum wages and student Jobs
- Scholarship



DATE: 22nd February 2024

TIME: 11:00 am to 12:30 am

**VENUE: G111** 

**TARGETED AUDIENCE: Sem 4** 

Chemical, Biotechnology and Civil

**Department Students** 



# Skill Development Programme



Chemical Engineering department organized a Skill Development Program on "Multi-Effect Evaporator" on 19/01/24 for 6th Sem students. In the first session, Mr. Pratik Koradiya explained the basic aspects of an evaporator. Along with that, he also explained multiple effect evaporation with respect to increase economy of evaporator. In the second session, Mr. Jilesh Pandya explained about the process design of Muti-Effect Evaporator and concept of boiling point elevation. This programme was coordinated by Mr. Priyank D. Khirsariya.









V.V.P. Engineering College, Rajkot

# Skill Development Programme





# Skill Development Programme



Chemical Engineering Department organized a Skill Development Program on Environment Audit from 5th-7th February 2024.

- Dr. Darshana Bhatti explained skills to conduct effective and efficient audit of environmental management system of industry.
- Dr. Sushil Korgaokar and Mr. Khodidas Harsoda demonstrated the measurement of air quality parameters.
- Mr. Rahul Vaidya explained stack monitoring method with demonstration.
- Prof. J.N. Joshi conducted session on Application of air pollution qualities and SI units in detail.
- Mrs. Yashvi Sheth conducted online session about various techniques for waste water treatment.













#### **Chemical Engineering Department**

### PARENTS' MEETING

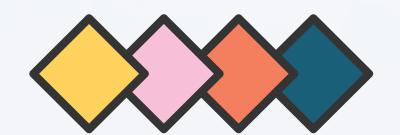
(4th & 6th Semester)

FRIDAY 5th April-2024

TIME 10:45 AM onwards



Chemical Engineering Department V.V.P. Engineeirng College, Rajkot



# Parents Meeting







The parents meeting was organized by Chemical Engineering Department on Wednesday, 5 April 2024 in Mechanical Operation Lab at 11:00 am.

After this, parents met the individual faculty members where they discussed about the academic performance of the students like class attendance, marks in mid semester and overall discipline in the department, etc. The programme was coordinated by Mr. Priyank Khirsariya.



#### Industrial Visit

Visit to Giriraj Milk Products Pvt. Ltd., Metoda Rajkot

Date: 04/04/2024.

Students of 4th and 6th semester
Faculty- Mr. Priyank Khirsariya
Manufacturing Units of
Butter, Butter Milk, Cream Milk Powder
Manufacturer, Curd Manufacturer.

We thank Mr. Vaibhav Hansalpara who explained the different processes used for large scale production of food products.







Visit to Nirma Limited, Bhavnagar

Date: 16/02/2024.

**Students of 6th semester** 

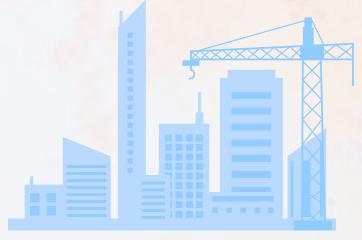
Faculty- Mr. Ajinkya Patwardhan and

Ms.Rita Saparia

Manufacturing of Soda ash, caustic soda, benzene, detergents, edible/industrial salt, sulfuric acid, cement, bromine, phosphoric acid, bathing soap and toilet soap.

We thank to personels of Nirma showing the toilet soap plant (manufacturing/packaging of soap), edible salt plant, learning center where a 3D animation video on the production process (mainly Solvay process) was shown..





V.V.P. Engineering College, Rajkot

#### Industrial Visit

Visit to Balaji Wafers, Metoda, Rajkot

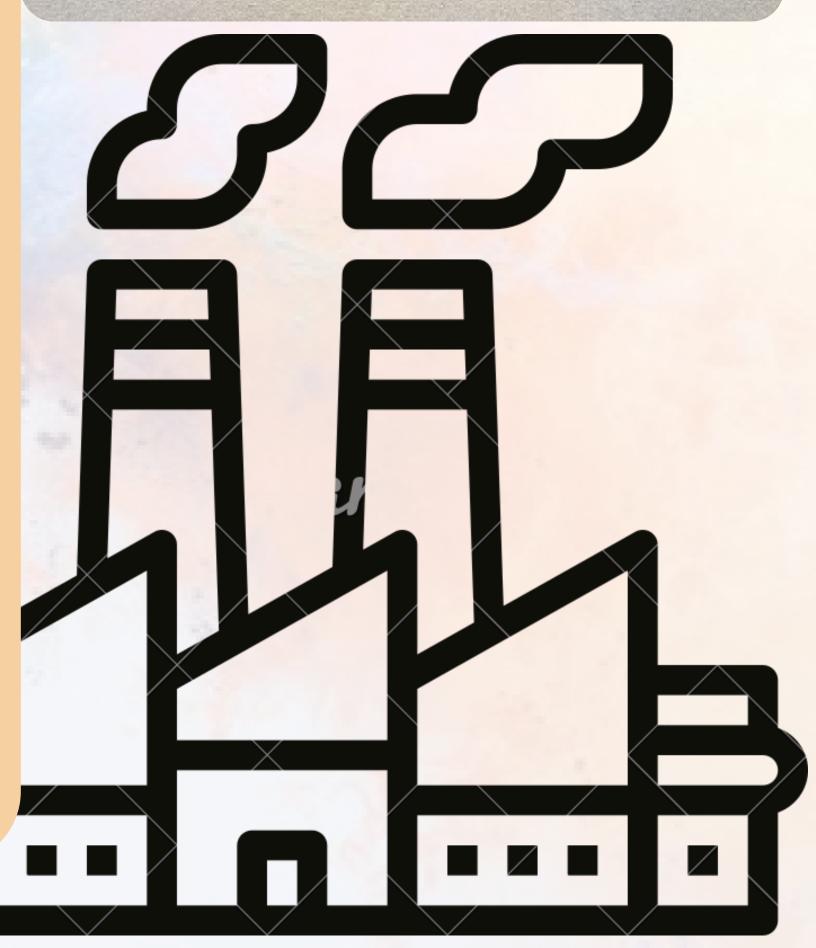
Date: 16/3/2024.

**Students of 4th semester** 

Faculty- Dr. Darshana T. Bhatti

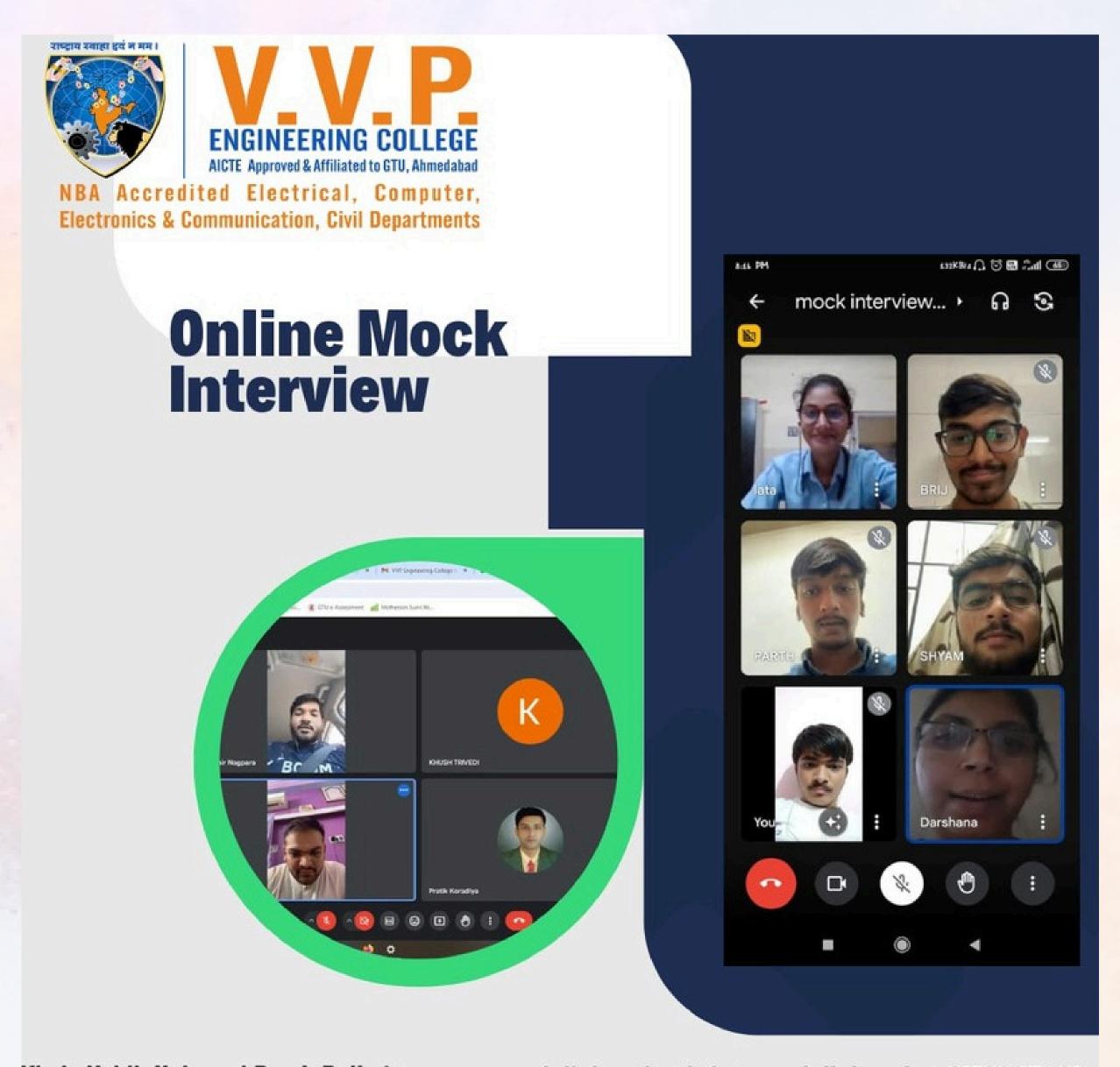
We thank to personnels for explaining the manufacturing process of wafers of different varieties. Other products of Balaji were explained in a very interesting manner using video. There was one session of the director on the journey of Balaji Wafer plant from inception. The director motivated the students by sharing life learning lessons with them and boosted up their confidence.





#### Mock Interview





Virda Vajdi, Kalawad Road, Rajkot www.vvpedulink.ac.in info@vvpedulink.ac.in 91732 15401

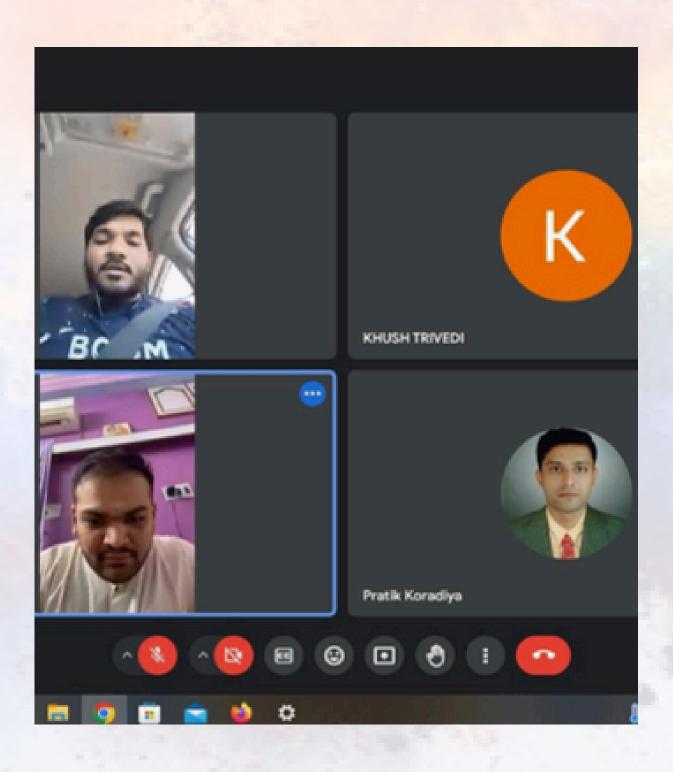
#### Mock Interview



Mock interviews enable candidates to have a fair idea about the sort of things they are going to experience at actual interviews and prepare them how accurately they can deal with it. Generally, these interviews are organized by career services where a career coach trains the students and recent alumni for the new opportunities, they can explore by being perfect at the actual interview sessions.

But accuracy does not come automatically. It needs a thorough practice and guidance from an expert trainer.

Esteemed Alumni in Renowned Industries

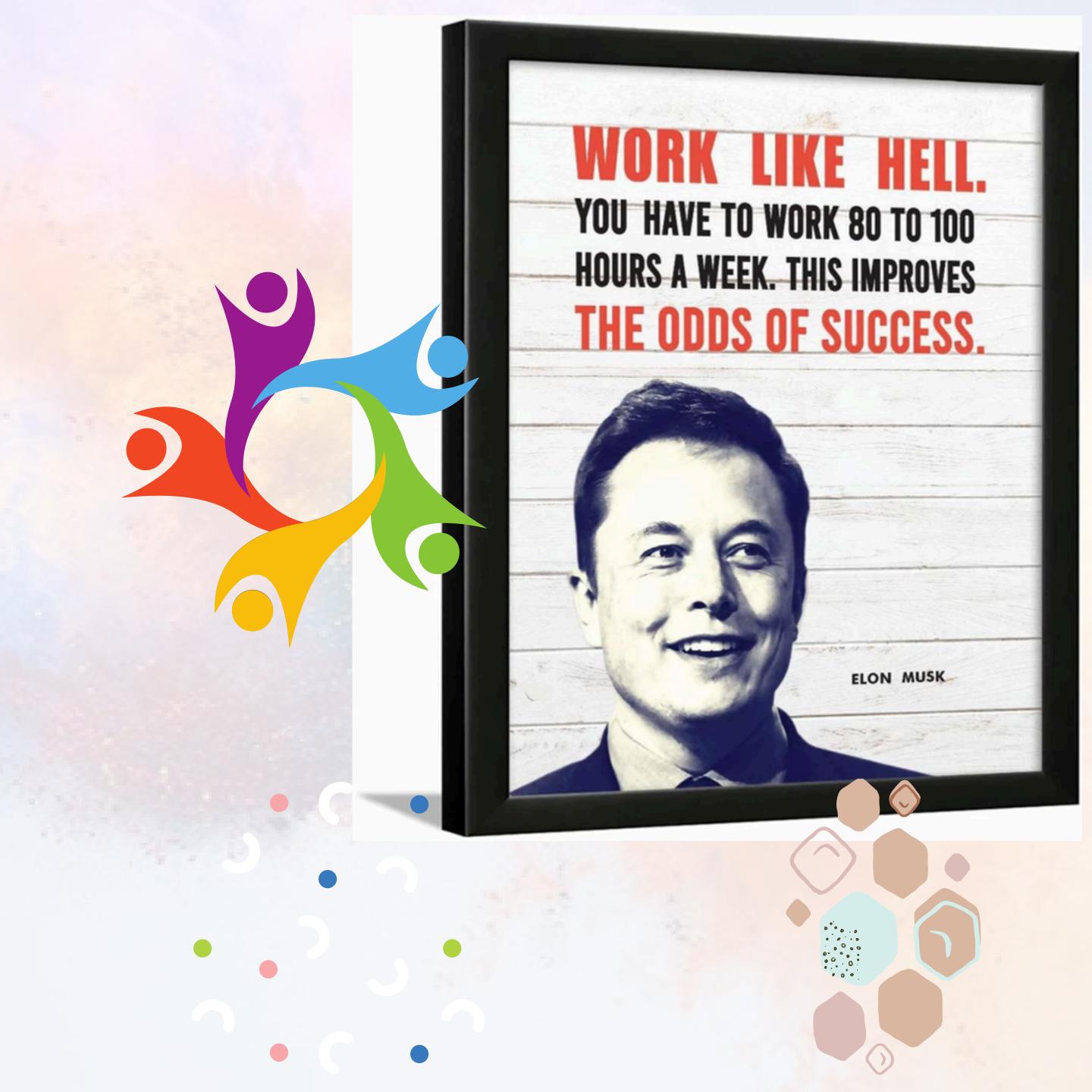


- Mr. Vipul Joshi [Joshi water and wastewater solutions,
   Ahmedabad ]
- Mr. Harsh Bhatt [GCPL]
- Mr. Ketan Bharadvaj [Alkem Laboratories, Mumbai]
- Miss Lata Sinsinwar [Tata chemicals, Mithapur]
- Mr. Dilip Wagh [Aarti industries Ltd.]
- Mr. Kevin Padaliya [Shree Sulphuric Pvt Ltd.]
- Mr. Prayesh Paghdhar[Atul Ltd.]
- Sudhir Nagpara [Anlon Lifescience Pvt. Ltd.]
- Ajay Gulhane [UPL]
- Hardik Thanki [Reliance Industries Ltd.]

Chemical Engineering Department of V. V. P. Engineering College arranged an ONLINE Mock Interview round from 1st April to 10th April 2024 for final year students. Total 50 students participated in this activity. Total 10 Industrial experts contributed to this ONLINE Mock Interview. Most of them were alumni of VVP Engineering College. They were well experienced with good position at various industries.

Students were assessed on various parameters including Technical Knowledge, Fluency, Communication, Confidence and eye contact.







#### વી.વી.પી. એન્જીનીયરીંગ કોલેજના વિદ્યાર્થીઓ માટેની પ્રતિજ્ઞા

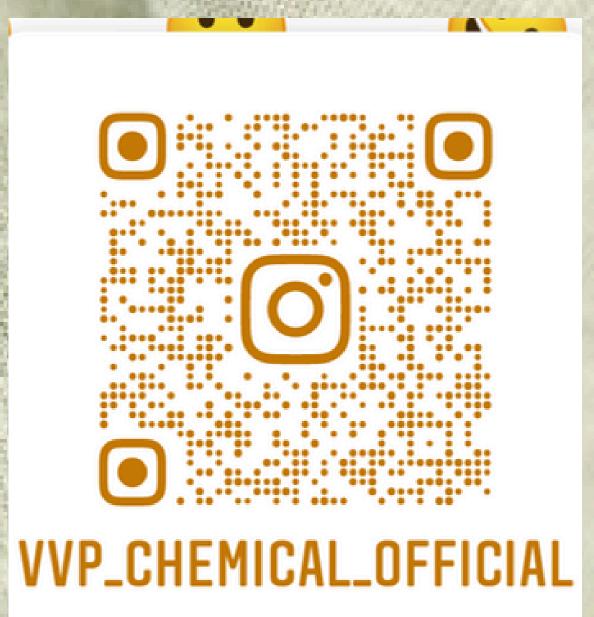




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