

# DARPAN



V.V.P  
ENGINEERING  
COLLEGE

BIOTECHNOLOGY  
ENGINEERING  
DEPARTMENT

AICTE approved & affiliated to GTU  
Ahmedabad

Jan-July 2023

# MESSAGE FROM CHAIRMAN, GOVERNING BODY



Shri Lalitbhai Mehta  
Chairman

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  
Principal

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 V. V. P. ENGINEERING COLLEGE

Vyavasayi Vidya Pratishthan is established by Rajkot Nagarik Sahakari Bank Ltd. to promote quality education in various technical fields. The trust was founded in 1996 with the objective of meeting technical educational needs of Gujarat.

The trust prides itself of establishing the first engineering college in Rajkot, the central location of Saurashtra and Kutch region. V.V.P. Engineering College is a self-financed institution affiliated to Saurashtra University and Gujarat Technological University, recognized by All India Council for Technical Education (AICTE), New Delhi and the Government of Gujarat.

It has a specially designed on 30 acres of land with spacious building providing an adequate infra-structural facility setup in a beautiful natural surroundings. It is landscaped with enlivened architecture that creates conducive environment of learning. The campus is located 10 Km on Kalawad Road, the west of Rajkot, with transportation and conveyance facilities.

VVP Engineering College is one of the best engineering colleges in India catering holistic growth to the students. It is providing state of the art facilities to the students. The institute has many schemes and offers for well education of the students.

## | 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 linkages with industries, alumni and professional bodies.
- To organise 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.

## | VISION OF THE DEPARTMENT

To become a leader in biotechnology education and research, which shapes young minds into professionals with strong moral and human values.

## | MISSION OF THE DEPARTMENT

- ♦ To provide strong academic foundation and inculcate technical competencies in students, to capacitate them to address technical problems and instill a life-long learning attitude.
- ♦ To mould students into well-groomed engineers by providing ecosystem favouring innovation, creative thinking, team spirit and by promoting leadership and entrepreneurial qualities.
- ♦ To create clear and reliable governance through ideal and humanitarian approach

## | PROGRAM EDUCATIONAL OBJECTIVES

- ♦ Practice Biotechnology with its engineering aspects in Food, Dairy, Agriculture, Pharmaceutical or Core Biotechnology industries, public sector undertaking or as an entrepreneur for successful professional career.
- ♦ Pursue research or higher education as their career objectives
- ♦ Establish leadership and team building qualities with demonstrables.

## | PROGRAM SPECIFIC OBJECTIVES

- ♦ Identify, analyze and solve problems relevant to Food, Dairy, Agriculture, Pharmaceutical or Core Biotech industries.
- ♦ Design products and/or processes in Food, agriculture, Pharmaceutical and core biotech industries, using skills offered by bioprocess/biochemical engineering.

# | Message from Head of Department



Prof. Pooja Chavda  
Head of Department

Welcome to the Department of Biotechnology at V. V. P. Engineering College, Rajkot.

The mission of the department is to create and apply new knowledge in Biotechnology to meet current national and global needs and to prepare undergraduate (B.E.) students for successful careers. Our diverse research portfolio address the current challenges in area of biotechnology with focus on energy and the environment apart from academic projects in medical, health care, dairy and food industries. These problems demand a multi-disciplinary approach and our department has expertise in areas spanning Biotechnology and Chemical Process engineering, Bio Informatics, Molecular Biology and Tissue Culture.

I invite you to visit the Department of Biotechnology and contact us directly, if you have any questions.

# | INDEX OF e-Bulletin

Biotechnology engineering is the study, research, development and application of living organisms to manufacture various bio products. The Biotechnology engineering course incorporates the combination of subjects like maths, chemistry, genetics, bio-chemistry, molecular biology, process design etc. the Biotechnology contributes to the upliftment of the fields like agriculture, pharmaceutical (disease research and drug design), Environment (eco-conservation), production of fertilizers, vaccines' manufacturing, energy production as well as the areas like animal husbandry, food technology etc.

The department is set with state-of-the-art equipments in laboratories for microbiology and immunology, biochemistry, molecular biology, plant cell culture (Tissue culture), bioinformatics, bioprocess technology and downstream processing. Separate chemical room and computer lab is also available. The department has research facilities housing advanced equipment like PCR, UV-VIS Spectrophotometer, refrigerated centrifuges, high speed centrifuge and basic equipment like electrophoresis systems, microscopes etc etc to cater the needs of students.

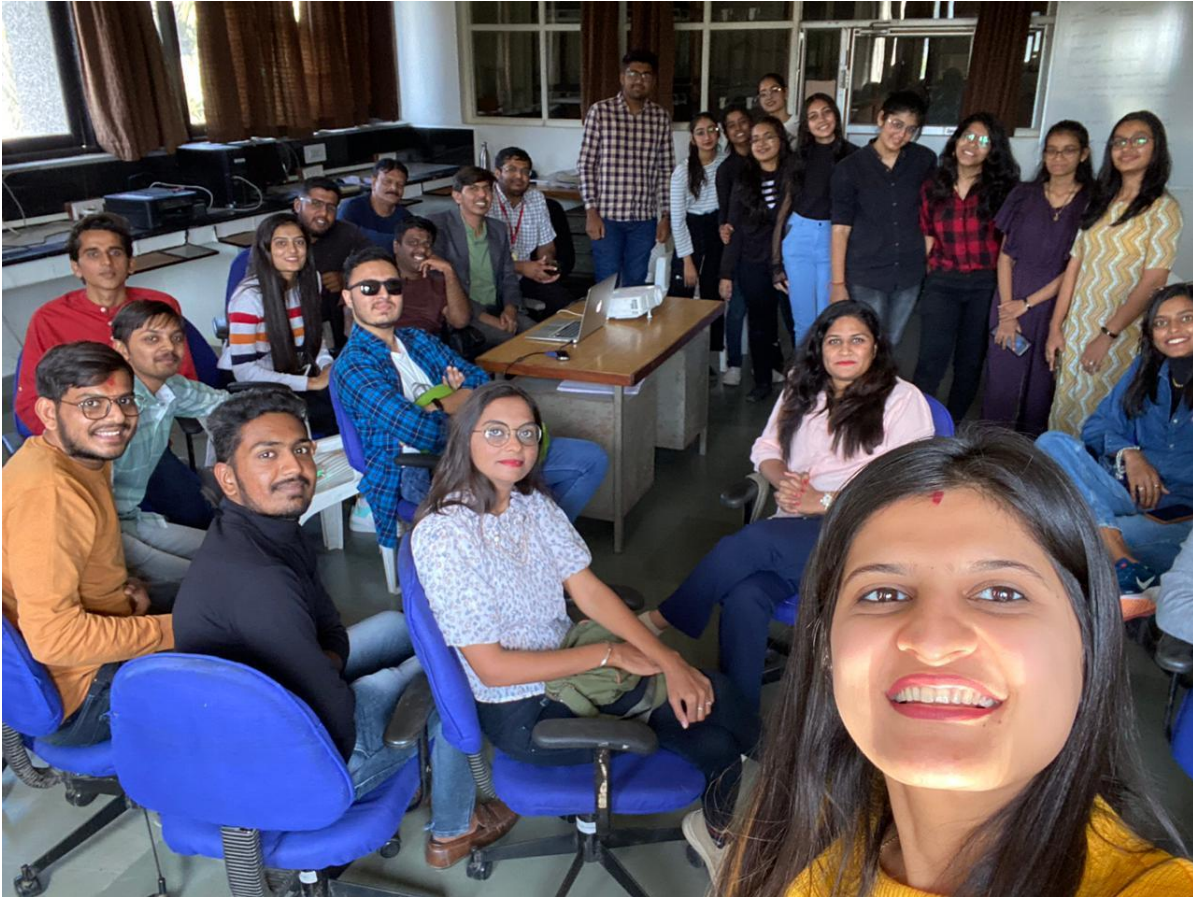
V.V.P. Engineering College strives to gift the best of the biotechnology engineers of the future to the society, in real sense!

# | INDEX OF e-Bulletin

<b>NO.</b>	<b>CONTENT</b>	<b>PAGE NO.</b>
1	Grand Alumni Meet 2023	1
2	Winners of ISTE Hackathon	2
3	Technical Event : Technothon	3
4	GSBTM Research Internship Program	4
5	Alumni Interaction 1 with Mr. Prit Asara	5
6	Alumni Interaction 2 with Mr. Viraj Nagariya, Mr. Khanjan Sitapara and Mr. Vikas Kaachiya	6
7	Industrial Visit 1 : Regional Food Laboratory, Rajkot	7
8	Gold Medalist	8
9	Motivational Quote	9
10	Student Pledge	10
11	Contact	11



# GRAND ALUMNI MEET 2023



Biotechnology Engineering Department is bestowed with huge alumni support. Graduates from this department adds pride to this department by excellence in the Field. Institute had organized Grand Alumni Meet on 1st January 2023 wherein the happy faces from across the globe gathered at the department to share their journey, success stories and memories at V V P Engineering College.

# Winners of ISTE Hackathon



VVP ENGINEERING COLLEGE  
BIOTECHNOLOGY ENGINEERING DEPARTMENT

# CONGRATULATIONS

For the victory that has been achieved  
2nd Rank in ISTE Annual Hackathon 2023

# TECHNICAL EVENT: TECHNOTHON

Date: 28th April 2023

This event was diversified in 5 activities:

1. Crazy Hops
2. Dead Lift
3. Walk a mile
4. Criminologist
5. Myth, Fact and Pitches



# | GSBTM Research Internship Program

DEPARTMENT OF SCIENCE AND TECHNOLOGY  
Govt. of Gujarat, Gandhinagar

The department takes pride as 2 of the students Mr. Mitul Panchasara and Ms. Ruksar Chhatbar of final year Biotechnology were selected for Research Internship Program sponsored by Gujarat State Biotechnology Mission, Gandhinagar.

Summer Internships have played a pivotal role in building interest and enthusiasm in students to pursue higher education and strive for excellence. Interface with good research practices at a young age can increase the possibilities of systematic and quality research by the students at a later stage in their lives..



# | ALUMNI INTERACTIONS

Alumni Interaction 1: Mr. Prit Asra

Date: 8th May, 2023

Time: 9:00AM-10:00AM

On 8th 05 2023, **Mr. Prit Ashara**, an alumnus of Biotechnology Engineering department VVP Engineering college, on invitation interacted with the students of Biotechnology Engineering department. The event started with a formal introduction of Mr. Prit by Ms. Urmi Kansagara. Mr. Prit insisted that the event be more of an interactive session rather than a monologue. After an initial period of calm, students warmed up to Mr. Prit and went on to asking doubts to Mr. Prit about the need or postgraduate degrees, job hunting through a personal approach (apart from online applications) There were back-to-back questions from the students regarding subject matter expertise requirement as well as challenges faced by a graduate outside of academia. Mr. Prit answered all the questions to the satisfaction of the students. Towards the end of the session, Ms. Urmi Kansagara thanked Mr. Prit for his precious time and concluded the session.



Biotechnology engineering department, V.V.P. engineering college, Rajkot

# | ALUMNI INTERACTIONS

Alumni Interaction 2: Mr. Viraj Nagariya, Mr. Khanjan Sitapara and Mr. Vikas Kaachiya

Date: 3<sup>rd</sup> July 2023

Time: 12:00PM-2:00PM

This event was organized in the biotechnology department. The alumni's **Mr. Viraj Nagariya**, currently pursuing M.S. from IIT Guwahati, **Mr. Khanjan Sitapara**, Senior Officer, Premier Medical Corporation, Vapi and **Mr. Vikas Kacchiya**, founder of **Whites of Green**, interacted with the students of the ongoing batches. They all from different fields shared their experiences with the students, guided them and answered all their wild questions.



## Industrial Visit - 1

Place: Regional Food Laboratory, Rajkot

Date: 5th April, 2023

The Industrial visit to Regional Food Laboratory Rajkot was organized on 5<sup>th</sup> April 2023. Regional Food Laboratory Rajkot, is a government approved Food testing laboratory.

The purpose of this visits are to provide us the chance to design, organize, and participate in active learning experiences both within and outside of the classroom, as well as to obtain firsthand knowledge of how the testing laboratory works and to comprehend genuine applications of biotechnology.



## || Gold Medalist



**Ruksar Chhatbar**  
**CGPA - 8.46**



## MOTIVATIONAL QUOTE

# Swami Vivekananda

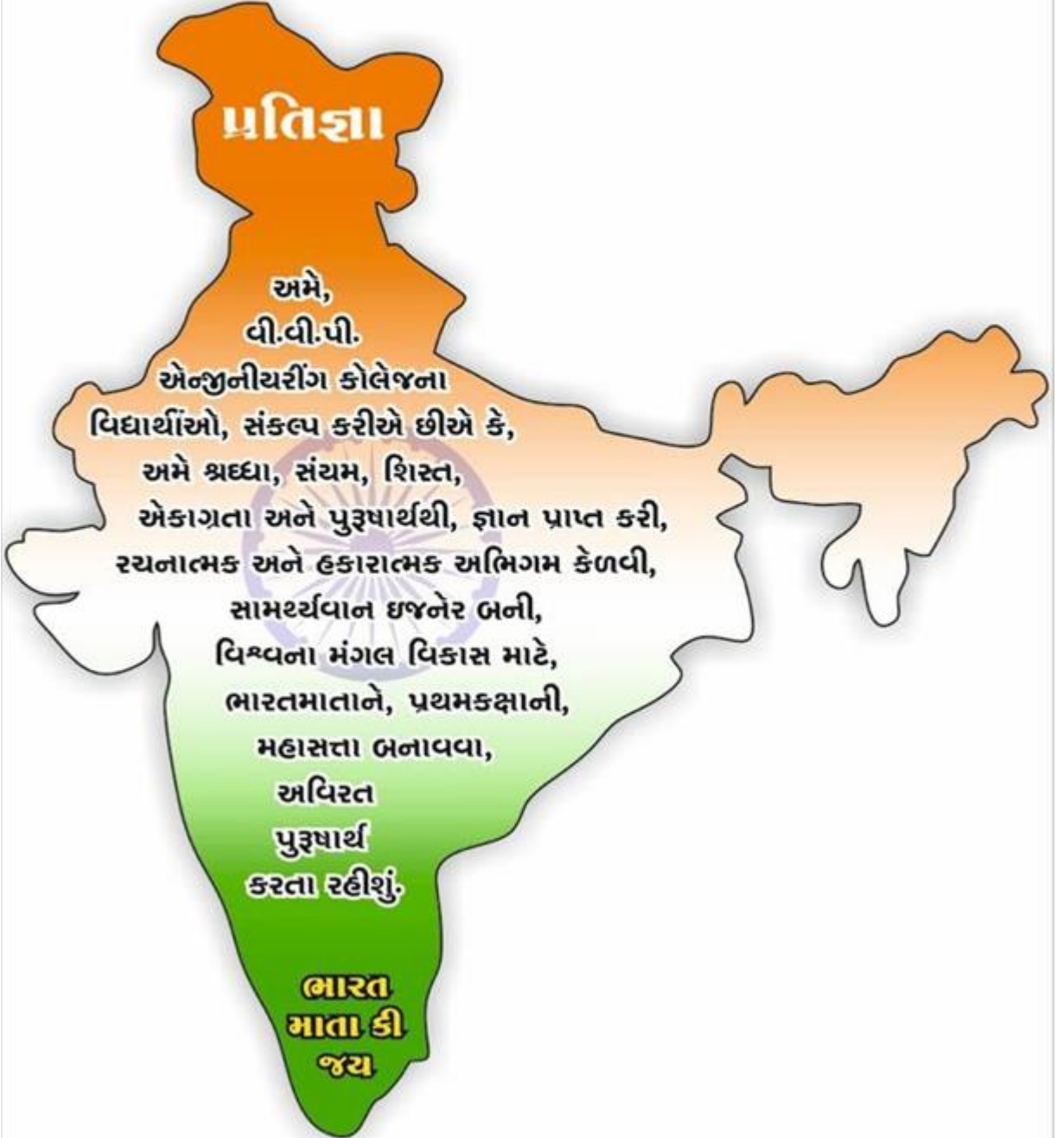
**"Take risks in your**

**If you win, you can lead!  
If you loose, you can  
guide!"**



## STUDENTS' PLEDGE

વી.વી.પી. એન્જીનીયરીંગ કોલેજના વિદ્યાર્થીઓ માટેની પ્રતિજ્ઞા





# V.V.P. ENGINEERING COLLEGE

Vajdi–Virda, Opp. Motel the Village, Kalawad Road,  
Rajkot–360 005. GUJARAT (INDIA) 91 732 15401,  
91577 17501, 91577 16781

Email : [vvpedulink@gmail.com](mailto:vvpedulink@gmail.com)

Website : [www.vvpedulink.ac.in](http://www.vvpedulink.ac.in)

Prepared by : **Neel Ruparel** (sem6),

&

Published by : **Biotechnology Department**