

DARPAN



V.V.P
ENGINEERING
COLLEGE

BIOTECHNOLOGY
ENGINEERING
DEPARTMENT

AICTE approved & affiliated to GTU
Ahmedabad

July-December-2023

MESSAGE FROM TRUSTEES:



Shri Kaushikbhai Shukla

Shri Harshalbhai Maniar

Dr. Sanjivbhai Oza

Dr. Narendrabhai Dave

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 500GW target by 2030, which is only 100GW 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 our 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 center allocation of Saurashtra and Kutch region.

V.V.P. Engineering College is a self-finance 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 and with spacious building providing an adequate infra-structural facility setup in a beautiful natural surroundings. It is landscaped with a modern architecture that creates a 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 the well-education of the students.

| VISION

To be an exemplary institute running and forming 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 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.

| 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 favoring 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 demonstrable.

| 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 addresses 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, BioInformatics, Molecular Biology and Tissue Culture.

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

ABOUT BIOTECHNOLOGY ENGINEERING DEPARTMENT

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. 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!

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INDUSTRIAL VISIT:



APRICOT FOOD PVT.LTD

Industrial visit of Sem 3 and Sem 7 biotechnology engineering students was organised in the dept on 15-09-2023 at APRICOT FOODS PVT.LTD., G-2410/11, Almighty gate No.2, GIDC Lodhika Industrial Estate, Kalawad Road, Metoda . They provided valuable insights into the production of namkeen items and They gave information of founders of company and other branch at Hyderabad. This company is under the Sanjeev Goenka Group. They could understand about the production process of different food packets as well as packaging. These may help our students to be in touch with industry for future internship. All it was good experience for students and they could learn dos and don'ts about the process and packaging of food.

INDUSTRIAL VISIT:



NFDD SAURASHTRA UNIVERSITY

Industrial visit of Sem 3 and Sem 7 biotechnology engineering students was organized in the dept on 21/10/2023.at Center of Excellence, NFDD Complex, Department of Chemistry, Saurashtra University Campus, Munjka, Rajkot, Gujarat 360005. The laboratory is equipped with state-of-the-art instruments and offers students an exceptional learning experience in the realm of chemical analysis and research. Students gained knowledge about the advanced equipment, experiments, and research activities carried out in the Chemical Laboratory & its role in the Biotechnological Applications. They observed several advanced instruments such as gas chromatographs, mass spectrometers and UV-Visible spectrophotometers used for chemical analysis

FACULTY ACHIEVEMENT:



Prof. Pooja Chavda, Head and Assistant Professor in Biotechnology Engineering Department was invited as a resource person to deliver an expert talk on topic "Carbohydrate metabolism and its regulation" in a 15 days crash workshop jointly organized by Department of Biotechnology, Atmiya University and Gujarat State Biotechnology Mission, DST, Gandhinagar to prepare students

| FACULTY ACHIEVEMENT:



Biotechnology Department faculty Prof. Shreyas Dhuliya and his student VikasKachhiya got Rs. 250000/- grant provisionally approved by Gujarat Student Startup & Innovation Hub (i-Hub)!His start up innovation project is named Whites of Green (WoG). They developed a vegan milk recipe and process that can replace dairy milk in taste and nutrition and is environmentally sustainable.

ALUMNI INTERACTION

Alumni Interaction 1:Mr.Busa Bhargav



Date:9th Oct-2023

Time:10:00AM-11:00AM

Mr. Bhargav Busa currently working in zydus life science Ahmadabad came to VVP on 9th oct to address current students of sem 3 and 7. He shared his career journey and experiences with them. He guided students about the interview process and his job role in the company. He shared his interesting experience of working in a pharma company for vaccines actively while the corona pandemic was ongoing

ALUMNI INTERACTION

Alumni Interaction 2: Chauhan Jayraj



Date: 1st Nov.-2023

Time: 10:00AM-11:00AM

Mr. Jayraj Chauhan , Alumni of 2020 pass out batch came on 9th oct 2023 to share his knowledge and experience of past 3 years with current students. He is currently working in INTAS plasma fraction. Students asked him various questions about the environment in industry and what are some crucial things to take care of. He shared his job role and its significance. He also talked about some case studies about biosafety and the importance of discipline in industry environments.

EXPERT TALK:

Place: Bioinformatics Lab

Date: 4TH Oct,2023

Time:11:00 AM to 12:00 PM



Mr. Hitesh Patel

To provide exposure to real industrial practices, an expert talk of Mr. Hitesh Patel, Founder of Petox Foods Pvt. Ltd, Rajkot was organized for the students of Biotechnology Engineering Department. Mr. Hitesh Patel talked about practical aspects of Mushroom Cultivation and challenges in its mass production. He also motivated the students for start ups and become job provider rather than job seeker.

|| STUDENTS PARTICIPATIONS:

Semester 3rd Student Aditi Soni and Rathod Shivani selected for Hand Ball At AIU Level



|| STUDENTS PARTICIPATIONS:

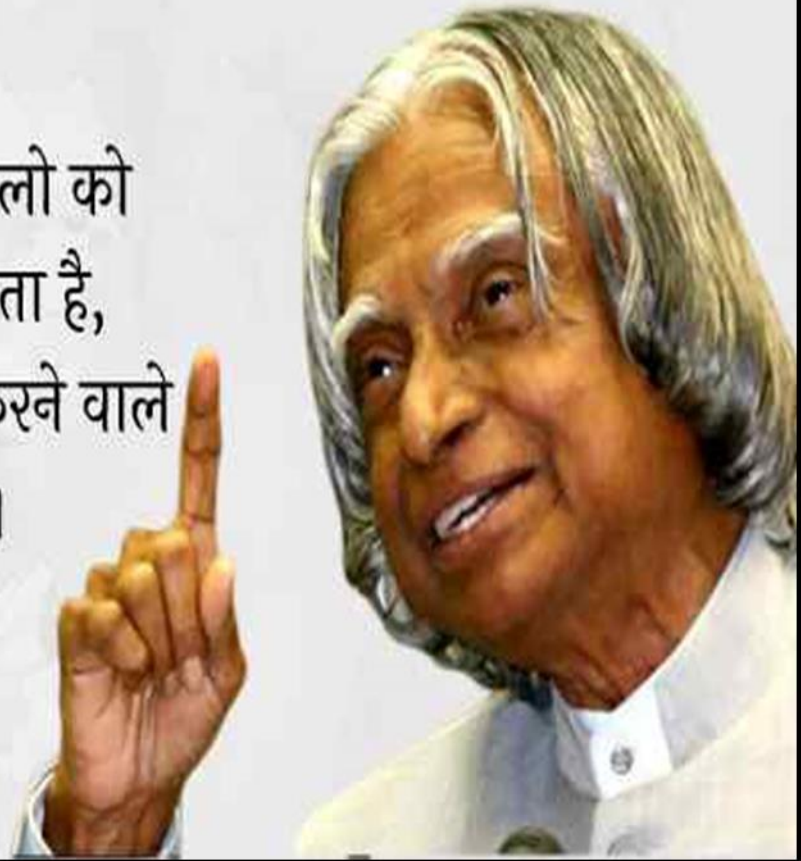
Semester 3rd Student Gaglani Krutika Achived 3rd Princess rank
At Rasotsav "NAVRANG"



MOTIVATIONALQUOTE

इंतज़ार करने वालो को
सिर्फ उतना मिलता है,
जितना कोशिश करने वाले
छोड़ देते है।

@Chalohindi



STUDENTS' PLEDGE

વી.વી.પી. એન્જનીયરીંગ કોલેજના વિદ્યાર્થીઓ માટેની પ્રતિજ્ઞા



राष्ट्राय स्वाहा इदं न मम ।



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