



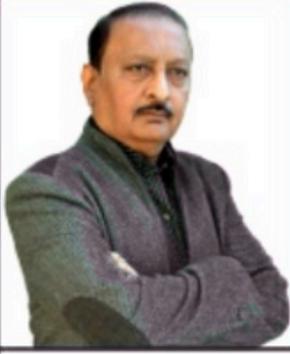
V.V.P.
ENGINEERING COLLEGE
AICTE Approved & Affiliated to GTU, Ahmedabad

BIOSYNTHESIS

June To December - 2025

**BIOTECHNOLOGY
ENGINEERING
DEPARTMENT**

MESSAGE FROM TRUSTEES



Shri Kaushikbhai Shukla



Shri Harshalbhai Maniar



Dr. Sanjivbhai Oza



Dr. Narendrabhai Dave



Dr. Navinbhai Sheth

India's energy transition is in its infancy 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. Piyush Vanzara
Principal

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

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

With a focus on continuous improvement, we strive to be a place where diverse perspectives are celebrated, and where all members of our community—students, faculty, and staff—work together to create a sustainable, prosperous future for all. Let us move forward with a shared sense of purpose and dedication for shaping the engineers of tomorrow.

ABOUT V V P ENGINEERING COLLEGE

Vyavasayi Vidya Pratishthan is established by Rajkot NagarikSahakari 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 students.

To Practice good governance and conduct value-based activities for making students responsible citizens.

MESSAGE FROM HEAD OF DEPARTMENT



Prof. Pooja Chavda
Head of Department

It gives me great pleasure to address you through this departmental e-bulletin. Biotechnology Engineering is a dynamic and interdisciplinary field that integrates biological sciences with engineering principles to address challenges in healthcare, agriculture, industry, and environmental sustainability. Our department is committed to developing technically competent, ethically responsible, and innovation-driven graduates.

We emphasize a strong foundation in theory complemented by hands-on laboratory training, research exposure, industry interaction, and interdisciplinary learning. The active involvement of our students and faculty in research projects, publications, internships, workshops, and outreach activities reflects our dedication to academic excellence and continuous growth.

This e-bulletin provides a platform to highlight the achievements and activities of our department. I extend my sincere appreciation to our faculty, students, alumni, and industry partners for their continued support, and I encourage everyone to actively contribute and engage as we work together to advance biotechnology education and research.

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 math's, 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.

Vision

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

Mission

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 an ideal and humanitarian approach.

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INDUSTRIAL VISIT (I)



Industrial visit at Vimal Research Society

Semester 3 students for Industrial visit to VIRASCO Lab, Gondal. The training aimed to provide practical exposure to modern plant biotechnology techniques and enhance students' laboratory skills beyond the classroom curriculum.

During the training, students received detailed demonstrations from industry experts on sterilization techniques, media preparation, aseptic handling, shoot multiplication, callus induction, and micropropagation steps. They also gained insights into the use of laminar airflow cabinets, autoclaves, culture vessels, and growth chambers used in commercial tissue culture laboratories.

The training emphasized the importance of maintaining contamination-free conditions, understanding plant growth regulators, and optimizing culture media for successful in vitro propagation. Students actively participated in each step—from surface sterilization of explants to inoculation and observation of culture responses.

The visit provided a valuable opportunity for students to witness large-scale commercial plant production processes and understand the significance of tissue culture in agriculture, horticulture, and nursery industries. This experiential learning strengthened their technical competence and boosted their confidence in pursuing careers or research in plant biotechnology.

INDUSTRIAL VISIT (II)



Industrial visit at Madhapar Sewage Treatment Plant

The industrial visit to the 80 MLD Waste Water Treatment Plant at Madhapar, under the Drainage Branch, was organized by VVP Engineering College. The visit aimed to provide practical exposure and understanding of wastewater management and the functioning of treatment plants. Such visits are a vital part of engineering education as they bridge the gap between theoretical learning and real-world applications.

The 80 MLD Sewage Treatment Plant at Madhapar operates under the Rajkot Municipal Corporation's Drainage Branch. The plant handles large-scale wastewater from residential and industrial areas. It is equipped with advanced facilities for sedimentation, aeration, filtration, and disinfection processes to ensure that the treated water meets environmental standards. The plant also uses tertiary treatment methods for water reuse purposes.

During the visit, engineers and plant operators guided us through each stage of the treatment process. They explained the importance of efficient wastewater management in ensuring sustainable urban living. It was impressive to see how automation and human supervision work together for effective plant operation. The team also highlighted the need for public awareness regarding wastewater disposal and conservation of water resources.

The visit to the Waste Water Treatment Plant at Madhapar provided a valuable learning experience. It enhanced our understanding of wastewater treatment technologies, environmental protection, and the significance of engineering solutions in urban infrastructure. The guidance of faculty and plant experts helped in connecting theoretical knowledge with real-life industrial applications. This experience will certainly contribute to our professional and academic growth.

ALUMNI INTERACTION : (I)



Alumni Interaction with Nagariya Viraj

Viraj, an alumnus of the Biotechnology Department and currently a PhD scholar at IIT Guwahati, delivered an informative talk on career opportunities after B.E. Biotechnology, highlighting the diverse pathways available to graduates. He discussed options ranging from higher education and research careers (M.Tech, MSc, PhD) to opportunities in pharmaceutical industries, biomedical research, bioinformatics, genetic engineering, regulatory affairs, and entrepreneurship. He also emphasized the importance of competitive examinations such as GATE, CSIR-NET, and DBT-JRF for entering premier research institutions and encouraged students to build strong fundamentals, develop laboratory skills, and participate in research internships. His guidance helped students understand how to align their interests with suitable career options and remain competitive in the evolving biotechnology sector.

In the second part of the session, Viraj shared his personal experience about the academic environment and research culture at IIT Guwahati, giving students a realistic view of life as a research scholar. He described the institute as a hub of innovation offering advanced laboratory facilities, interdisciplinary collaboration, and continuous academic support from experienced faculty members. He highlighted the disciplined yet motivating work environment, emphasizing self-driven research, critical thinking, and regular evaluations through seminars and publications. The interaction provided valuable insight into research challenges, time management, and work-life balance at IIT, inspiring students who aspire to pursue postgraduate and doctoral studies in reputed institutions.

ALUMNI INTERACTION : (II)



Alumni Interaction with Virani Nandkishor

An expert talk on Higher Studies in Germany was delivered by Virani Nand Kishor, an alumnus of the Biotechnology Department, on 23/09/2025, to guide students aspiring to pursue education abroad. During the session, he explained why Germany is a preferred destination for biotechnology students, highlighting the presence of globally ranked universities, research-oriented programs, and affordable education. He detailed the admission process, including application portals, eligibility criteria, language requirements (IELTS/TOEFL/German language), academic transcripts, and required documents such as Statement of Purpose (SOP) and Letters of Recommendation (LORs). He also discussed the importance of selecting suitable universities based on research interests, curriculum structure, and future career goals.

In the second part of the session, he shared practical insights into student life and academic culture in Germany, covering topics such as part-time work opportunities, scholarships, visa procedures, and cost of living. He elaborated on the importance of time management, independent learning, and research-based education in German universities. He also briefed students on post-study work options, industry exposure, and long-term career opportunities in biotechnology and allied fields. The session was highly informative and motivating, and students appreciated the firsthand guidance provided, which helped them gain a clearer understanding of planning their higher studies in Germany.

Expert Lecture : (I)



Expert Lecture by Dr. Vaibhav Bhatt

- Expert Lecture on “Animal Cell Culture: Basics and Applications”
- An expert lecture on “Animal Cell Culture: Basics and Applications” was organized for students of Biotechnology Engineering from semesters 3, 5, and 7 on 10th October 2025. The session was conducted by Prof. Dr. Vaibhav Bhatt, Director, SAST-GTU, renowned for his expertise in cell and molecular biology.
- Dr. Bhatt introduced students to the fundamental principles of animal cell culture, covering topics such as aseptic techniques, types of cell lines, media composition, and culture maintenance methods. He also discussed advanced applications of cell culture in areas like vaccine development, drug screening, and tissue engineering.
- The lecture was highly interactive, with students enthusiastically participating in discussions and clarifying their doubts about real-world practices and laboratory protocols. Dr. Bhatt’s practical insights and engaging teaching style made complex concepts easy to understand, leaving the audience inspired to explore this vital area of biotechnology research.
- The session concluded with a vote of thanks from the faculty team, appreciating Dr. Bhatt for delivering an informative and motivating talk that enriched students’ academic learning experience.

Expert Lecture: (II)



Expert Lecture by Dr. Hitesh Asani

IEI World Environment Day 2025 Event

The Saurashtra Local Centre of the Institution of Engineers India (IEI), in collaboration with the Environmental Audit Cell of V.V.P. Engineering College, Rajkot, organized an awareness session for engineering students to celebrate World Environment Day 2025 on the theme "Beat Plastic Pollution."

Dr. Hitesh R. Ashani, Assistant Professor from the Civil Engineering Department at V.V.P. Engineering College, delivered the session, highlighting strategies to combat plastic pollution.

The event took place from 11:00 AM to 12:00 Noon on Wednesday, 23rd July 2025, at the PDC Auditorium, Department of Civil Engineering, V.V.P. Engineering College, Rajkot. Key organizers included Er. Urvish C. Kakkad (Chairman, IEI SLC-Rajkot), Er. Kapil D. Gaglani (Hon. Secretary), and Er. D. V. Suchde (Activity Sub-Committee Chairman, contact: 98980 91981).

This session was open to biotech students and others, promoting interdisciplinary environmental awareness relevant to sustainable biotechnology applications.



Lecture Series by Dr. Pritesh Sabara

As part of the ongoing Professor of Practice series, the Department of Biotechnology organized specialized sessions on Transcriptomics: Theory and Hands-on Experience for B.E. Biotechnology students of semesters 3, 5, and 7. The sessions were conducted by Dr. Pritesh Sabara, Scientist-B at the Gujarat Biotechnology Research Centre (GBRC), Gandhinagar.

Dr. Sabara meticulously designed and delivered lectures that extended beyond the regular syllabus, offering students a deep understanding of transcriptomics and its experimental applications. His sessions combined conceptual learning with practical exposure, enabling students to perform real-time data analysis using the Ubuntu command-line interface.

Drawing from his extensive research experience, Dr. Sabara also shared valuable insights into how transcriptomics is applied in cutting-edge areas like gene expression profiling, biomedical research, and drug discovery. The interactive and application-oriented approach made the sessions highly enriching, giving students a glimpse into modern bioinformatics workflows and real-world research practices.



MOU with GTU

The Department of Biotechnology, VVP Engineering College, Rajkot, is proud to announce the signing of a Memorandum of Understanding (MoU) with the Department of Biotechnology, School of Applied Sciences and Technology (SAST), Gujarat Technological University (GTU), Ahmedabad, on 5th August 2025. This academic partnership marks a significant milestone in strengthening collaborative teaching, training, and research between the two institutions.

Under this MoU, Biotechnology students of VVP Engineering College will gain access to advanced research and analytical facilities at SAST, GTU, at concessional charges, enabling them to work with state-of-the-art instruments such as Sanger Sequencer, Next-Generation Sequencing (Nanopore Technology), Flow Cytometer, and other high-end platforms. The collaboration is specifically designed to enhance student training, internships, and project-based learning, thereby improving their technical skills and research exposure in cutting-edge areas of biosciences.

This association will help students build strong foundations in experimental workflows, data generation, and analysis relevant to academia, healthcare, and biotechnology industries. The Department of Biotechnology extends heartfelt gratitude to the respected Trustee Sir and institutional leadership for their continuous guidance, mentoring, and support in making this collaboration possible.



Gujarat Biotechnology Research Centre (GBRC), Gandhinagar, Hands on Training

The Department of Biotechnology, VVP Engineering College, organized an intensive 11-day hands-on workshop on “Molecular Techniques in Biotechnology” for 7th semester B.E. Biotechnology students from 14th to 25th July 2025. The training was conducted by a visiting expert team from Gujarat Biotechnology Research Centre (GBRC), led by Scientist-B Dr. Bhumika Prajapati and Dr. Hemang Brahmhatt, along with their research scholars, with a strong focus on one-to-one mentoring at the lab bench.

Across the schedule, students performed nucleic acid extraction from blood, bacterial, plant and tissue samples, followed by nucleic acid quality assessment using UV spectrophotometry and gel electrophoresis, thereby reinforcing core molecular biology concepts learned in theory. Subsequent sessions covered recombinant DNA technology, plasmid isolation by alkaline lysis, analysis of plasmid DNA, primer designing, PCR amplification of a gene of interest, PCR product cleanup, restriction digestion, gel extraction, and ligation, giving students an end-to-end experience of a basic cloning workflow.

By the end of the workshop, participants had gained substantial hands-on exposure to standard molecular biology protocols, experimental planning, troubleshooting and data interpretation, significantly enhancing their readiness for research internships, higher studies, and biotechnology industry roles.

Department Event



Seminar on “How to Write a Research Paper”

Resource Person: Prof. Bhavika Turakhia

Mode: Offline

Seminar on “How to Write a Research Paper” was successfully conducted for sem 3,5 and 7 semester students of Biotechnology Department, V.V.P Engineering Colledge, Rajkot to provide participants with essential knowledge and skills in academic writing, manuscript preparation, and publication ethics. The session was delivered by Prof. Bhavika Turakhia, who clearly explained the structure of a research paper including title, abstract, introduction, methodology, results, discussion, and references. Emphasis was placed on selecting appropriate journals, understanding indexing platforms, avoiding predatory publishers, and maintaining originality through proper citation practices. The resource person also discussed common writing errors, techniques to improve clarity and coherence, and methods for presenting data effectively using tables and figures. The manuscript submission process and peer-review system were explained in detail, including how to respond to reviewer comments professionally. The workshop was highly interactive and informative, and participants expressed that the session significantly enhanced their understanding of research writing and publication strategies, making it a valuable academic experience.



VIRASCO, Hands on Training

A three-day hands-on training program on Plant Tissue Culture was successfully conducted for Semester - 5 students for educational visit to Veko Lab, Gondal. The training aimed to provide practical exposure to modern plant biotechnology techniques and enhance students' laboratory skills beyond the classroom curriculum.

During the training, students received detailed demonstrations from industry experts on sterilization techniques, media preparation, aseptic handling, shoot multiplication, callus induction, and micropropagation steps. They also gained insights into the use of laminar airflow cabinets, autoclaves, culture vessels, and growth chambers used in commercial tissue culture laboratories.

The training emphasized the importance of maintaining contamination-free conditions, understanding plant growth regulators, and optimizing culture media for successful in vitro propagation. Students actively participated in each step—from surface sterilization of explants to inoculation and observation of culture responses.

The visit provided a valuable opportunity for students to witness large-scale commercial plant production processes and understand the significance of tissue culture in agriculture, horticulture, and nursery industries. This experiential learning strengthened their technical competence and boosted their confidence in pursuing careers or research in plant biotechnology.

Faculty Participation

Sr. No.	Name Of Faculty	Name of Event	Event Date
1	Prof. Pooja Chavda	ATAL FDP On Application of Artificial Intelligence/Machine Learning Algorithms in Bioinformatics and Computational Biology	10-11-25 to 15-11-25
		IIC Regional meet-2025 at V.V.P Engineering College, Rajkot	2/12/2025
2	Prof. Shreyas Dhuliya	He has successfully completed up skilling course AI Driven professional at AI career Accelerator Inner circle program	11/10/2025
		IIC Regional meet-2025 at V.V.P Engineering College, Rajkot	2/12/2025
		He has actively participated in Startup program at Atmiya inovations foundation at Atmiya collage,Rajkot	07-12-25 to 21-12-25
3	Prof. Urmi Kansagara	ATAL FDP On AI-Driven Solutions for Sustainable Development	08-09-25 to 13-09-25
		Best Library user Award year 2024-25	12/8/2025
		IIC Regional meet-2025 at V.V.P Engineering College, Rajkot	2/12/2025
4	Prof. Prit Ashra	ATAL FDP On Revolution in healthcare the role of AI in drug development clinical trials and practice	13-10-25 to 18-10-25
		One month online hands on workshop on RNA-seq data analysis	20-06-2025
		BI for Biologist (Introduction to linux Bash and R&Z)Analysing and Interpreting genomics dataset	
		GBRC Training Coordinator and IIC Regional meet-2025 at V.V.P Engineering College, Rajkot	2/12/2025
5	Prof. Bhavika Turakhiya	ATAL FDP On Sustainable Healthcare Solutions through Quantum AI: Building India's Capacity in Resource-Efficient Precision Medicine and Green Drug Discovery	01-09-25 to 06-09-25
		She has attended online webinar on "Making Classroom More Engaging and Effective"	21-08-25
		IIC Regional meet-2025 at V.V.P Engineering College, Rajkot	2/12/2025

Students Achievement : (I)



Semester 7th Student DOSHI PALAK Secured 1st Rank in Entire GTU

Students Achievement : (II)



Semester 5th Student Fauster Oygen Secured 1st Runners up in Basketball tournament of GTU

Students Achievement : (III)

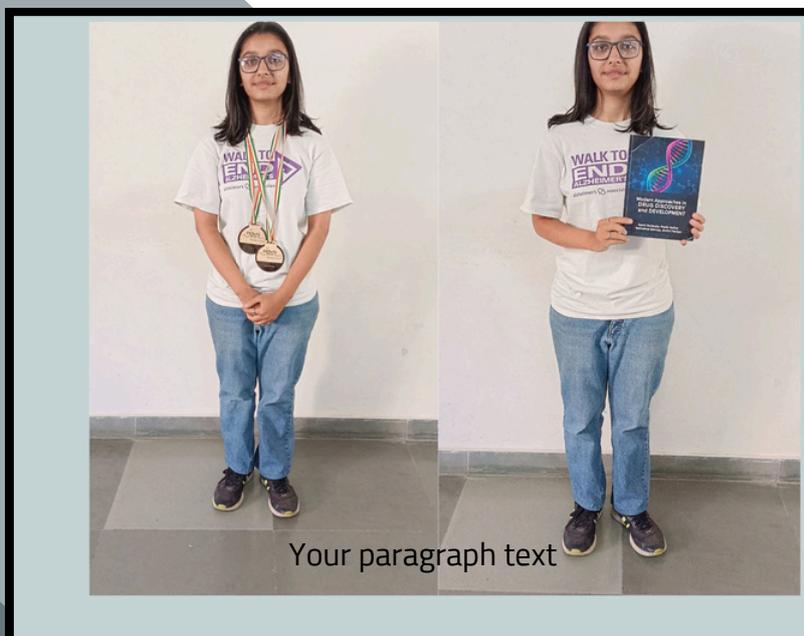


Krutika Gaglani

Semester 7th BT Student

Got 1st Princess rank in "RASOTSAV"-2025

Students Achievement : (IV)



Aditi Soni

Semester 7th BT Student

two chapter publish in book name:Topic DRUG DISCOVERY AND DEVELOPMENT

Student Participation

Participation in Kshitij-2025 Youth festival

Sr.no.	Semester	Students Name	Event type
1	5 th	Sharma Abhijit	Debate
2	7 th	Rathod Shivani	Theater and Drama in Mine act
3	7 th	Gaglani Kritika	Dance, Theater and Drama in Mine act
4	7 th	Modi Vishwa	Theater and Drama

Participation in Indoor and Outdoor Sports College Level on 26th and 27th September

Sr.no.	Semester	Students Name	Event type
1	1 st	Heer pate	indoor chess
2	3 rd	Sojitra Shree	Basket Ball
3	5 th	Savani Heet	Basket Ball
4	5 th	Fauster Oygen	Wally ball
5	7 th	Soni Aditi	Wally ball
6	7 th	Dhorda Ayushi	Wally ball

Student Participation

Participation in NPTEL Course

Sr.no.	Semester	Students Name	Event type
1	7 th	Bhinde Jay	NPTL Course Complete
2	7 th	Jhala Neel	NPTL Course Complete
3	7 th	Jhala Neet	NPTL Course Complete

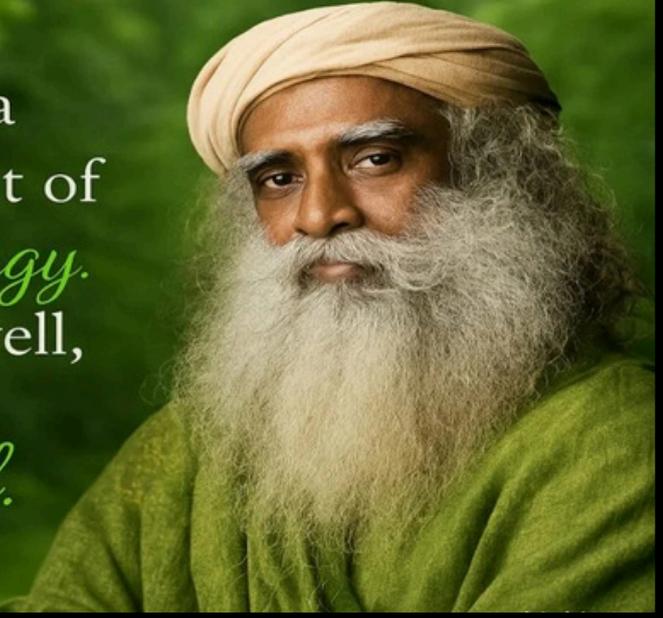
Participation in One day State Level Seminar at Nirma University

Sr.no.	Semester	Students Name	Event type
1	5 th	Gajera Khushi	One day seminar, at Nirma University(Nano Drug Delivery)
2	5 th	Joshi Harsh	One day seminar, at Nirma University(Nano Drug Delivery)
3	5 th	Savani Heet	One day seminar, at Nirma University(Nano Drug Delivery)
4	7 th	Doshi Palak	One day seminar, at Nirma University(Nano Drug Delivery)
5	7 th	Choudhry Mansi	One day seminar, at Nirma University(Nano Drug Delivery)
6	7 th	Jadeja Krishnaba	One day seminar, at Nirma University(Nano Drug Delivery)

Positive Quote

Life is just a
certain amount of
time and energy.
If you use it well,
it becomes
beautiful.

– *Sadhguru*



STUDENTS' PLEDGE

વી.વી.પી. એન્જનીયરીંગ કોલેજના વિદ્યાર્થીઓ માટેની પ્રતિજ્ઞા

પ્રતિજ્ઞા

અમે,
વી.વી.પી.

એન્જનીયરીંગ કોલેજના
વિદ્યાર્થીઓ, સંકલ્પ કરીએ છીએ કે,
અમે શ્રદ્ધા, સંયમ, શિસ્ત,
એકાગ્રતા અને પુરુષાર્થથી, જ્ઞાન પ્રાપ્ત કરી,
રચનાત્મક અને હકારાત્મક અભિગમ કેળવી,
સામર્થ્યવાન ઇજનેર બની,
વિશ્વના મંગલ વિકાસ માટે,
ભારતમાતાને, પ્રથમકક્ષાની,
મહાસત્તા બનાવવા,
અવિરત
પુરુષાર્થ
કરતા રહીશું.

**ભારત
માતા કી
જય**

राष्ट्राय स्वाहा इदं न मम ।



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