

DARPAN



**V.V.P
ENGINEERING
COLLEGE**

**BIO TECHNOLOGY
ENGINEERING
DEPARTMENT**

AICTE approved & affiliated to GTU
Ahmedabad

Jul-Dec 2021

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. Jayesh Deshkar
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 Pratishtan 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 HOD



Dr. Dharmesh H. Sur

Head of Department

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

The mission of the department is to create and apply new knowledge in Bio Technology 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 Bio Technology and contact us directly, if you have any questions.

| ABOUT DEPARTMENT

Biotechnology engineering is the study, research, development and application of living organisms to manufacture various bio products. The Bio Technology 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.



Faculties-Biotech Department with Principal

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!

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| DATELINES OF ACTIVITY 2021

DATE	EVENT NAME	REMARKS
28 November	Industrial Visit M/S Balaji wafers Ltd., Rajkot	Sem 3 Students with Dr D H Sur, Mr Dip Patel, Mr Himanshu Pithadiya
9 October	Expert talk By Mrs. Soya Marry Jose	Invited and initiated by Dr Nishant Gopalan and coordinated by Prof. Shreyas Dhuliya And Dr D H Sur
2 October	Mock interview sessions Judged By Alumni: [1] Mr Nirlon Patel, Syngene International Ltd., Bangalore [2] Mr. Soham Trivedi, Goran Pharma Ltd., Bhavnagar	Invited and initiated by Dr D H Sur; Coordinated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya
11 September	TRIATHALON: Technical Event of Biotechnology Department	Events conceived and Coordinated by Dr. Nishant Gopalan and Prof. Shreyas Dhuliya
9 September	Industrial visit: Shree Muni Seva Ashram and Plant tissue culture lab., Vadodara	Sem 3,5,7 Students with Dr D H Sur
8 September	Expert Talk on "Career opportunities in Biotechnology" By Dr. Parth Joshi, germany	Invited and initiated by Dr D H Sur; Coordinated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya
7 September	Industrial visit: FISHFA BIOGENICS UNIT II., Metoda, Rajkot	Sem 3,5,7 Students with Dr. D H Sur
3 September	Expert Talk on "Future opportunities in Biotechnology" By Dr. Naresh Manickam	Invited and initiated by Dr D H Sur; Coordinated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya

| DATELINES OF ACTIVITY 2021

28 August	Alumni Interaction : Mr Bhavik Koshiya Validation Consultant, Gemany.	Invited and initiated by Dr D H Sur; Coordinated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya
27 August	Industrial Visit: Rajkot Dairy Plant, Rajkot	Sem 3,5,7 (odd 2021_22) Students with Prof. Shreyas Dhuliya and Mr Dip Patel.
26 August	Alumni interaction : "Target GATE and entrepreneurship" By Mr Viraj Nagariya and Mr Mohammed Bharmal	initiated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya
25 August	Alumni interaction and expert talk By Mr. Avadh Oza	Invited and initiated by Dr D H Sur; Coordinated by Dr Nishant Gopalan and Prof. Shreyas Dhuliya
7 April	Alumni interaction: Mr. Abrar Dhankot	Prof. Shreyas Dhuliya coordinated.
7 April	Expert talk: Tissue culture by Mr. Abrar Dhankot	This started after alumni interaction session immediately. Dr. Nishant Gopalan coordinated.
31 March	Mock interview sessions Session 1: 10.00 am to 11.40 am Session 2: 12.00pm to 1-40 pm	Dr. Nishant Gopalan and Prof. Shreyas Dhuliya coordinated.
24 March	CV writing exercises	Dharmesh Sur-one to one interaction. .
17 March	CV writing exercises and communications	9 studetns attended .

| TECHNICAL EVENT: TRIATHLON

Date: 11th September, 2021

This event was diversified in 3 activities:

1. Plug-in

Here 1 participant from all teams has to come up and make a cotton plug of the size of given flask. The efficiency of it would be judged by the structure and durability. If the participant is able to make a perfect one than he/she gets 5 points.

2. Dare to quiz

Here two teams are compete, where 4 questions are presented and the one who can answer correctly gets 10 point and one who cannot has to perform a dare by selecting from the prepared chits.

3. Debate

In this event, on the basis of total points, teams are decided and 3 topics are given for debate. 20 minutes preparation time is given to all teams. After completion of this 20 minutes, it is decided that who gets which topic and which side to defend for. Marks are given by judge on the basis of points put up by the participants.

At the end, team with highest points are declared as winner .



TECHNICAL EVENT: TRIATHLON

This event was coordinated by Nanda Yashvi (sem 7) and Jhaveri Kashish (sem 7) and 18 students participated.



| GSBTM STUDENT AWARENESS SEMINAR

DEPARTMENT OF SCIENCE AND TECHNOLOGY
Govt. of Gujarat, Gandhinagar

Sponsored seminar
on

"Importance of Chemistry and Maths for Biologists and Career Opportunities in Biotechnology and Computational Biology"

Date: 27th November, 2021

The expedition was joined by four faculty members from Schools and two faculty members from V V P Engineering College. Under this program, a total of 110 students participated from Nearby schools to get aware about the Biotechnology fields and its scope. 4 speakers delivered simple talk related to the theme.

Four lecture were given by **Dr. Nutan Prakash Vishwakarma** on Career prospects in computational biology, **Dr Dharmesh Sur** on Career Prospects in Biotechnology, **Dr Nirav Shah** on Importance of Mathematics in Biological Sciences and **Dr Sushil korgaokar** Importance of Chemistry in Biological Sciences.

Program ended with feedback. The feedback of students were recorded and really amazing. The insight of the field of Biotechnology was simply put before these participants comprising 11-12th science students.



| EXPERT LECTURES

Expert Lecture 1: Dr. Parth Joshi (Neuroscientist, Genetic Engineer)

Date: 8th September,2021

Time: 12:00PM-1:00PM

The expert lecture was given by **Dr. Parth Joshi** who is working as a postdoctoral research scientist at Max Plank Institute for Biophysical Chemistry in Germany. He gave the knowledge about genetic engineering and scopes of the same. He also discussed about studying and pursuing job in Germany.



| EXPERT LECTURES

Expert Lecture 2: Dr Naresh Manickam- Faculty , Dept. of Biotechnology, Bannari Amman Institute of technology, Coimbatore

Date: 3rd September, 2021

Time: 11 PM-12Pm

Dr Naresh Manickam interacted on "Future opportunities in Biotechnology" with 19 attendees . He started a talk emphasizing need for alternative fuels and that from alternative source using the principles of Biotechnology so that our country's coal dependency and like scenario for fuel consumption can be addressed. He talked on why there is need for shift to cellulosic bioethanol and Sustainable bioenergy can be explored.



He specifically given the goals to second year and third year students for the work they can carry out in this field with opportunity.



| EXPERT LECTURES

Expert Lecture 3: Mrs. Soya Mary Jose (Genetic Engineering Expert)

Date: 9th October, 2021

Time: 10:30AM-11:30AM

This expert lecture was scheduled on 9th October 2021. The lecture was given by **Mrs. Soya Mary Jose**. She spoke on the subject of gene isolation of multi system eukaryotic organisms



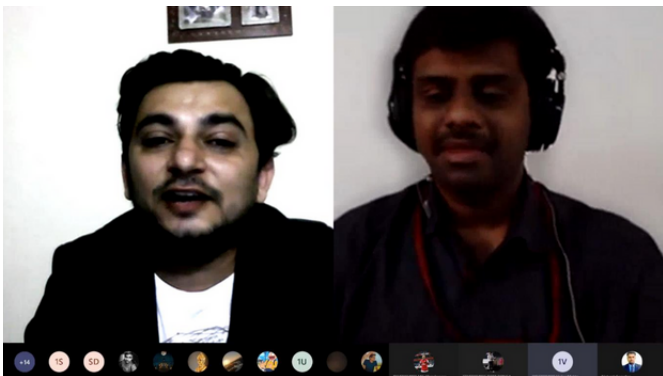
| ALUMNI INTERACTIONS

Alumni Interaction 1: Mr. Avadh Oza

Date: 25th August, 2021

Time: 9:00AM-10:00AM

On 25th 08 2021, **Mr. Avadh Oza**, 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. Oza by Dr. Nishant Gopalan. Mr. Oza 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. Oza and went on to asking doubts to Mr. Oza about job requirements in the industry, the need or postgraduate degrees, job hunting through a personal approach (apart from online applications) as well as a general aptitude that is

required by the student. Dr. Nishant prodded Mr. Oza about his current associations with Thermax Industries, and he elaborated about his role. 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. Oza answered all the questions to the satisfaction of the students. Towards the end of the session, Dr. Nishant as well as Dr. Sur thanked Mr. Oza for his precious time and concluded the session.

| ALUMNI INTERACTIONS

Alumni Interaction 2: Mr. Mohammad Bharmal and Mr. Viraj Nagariya

Date: 26th August, 2021

Time: 2:00PM-3:00PM

This event was organized in the biotechnology department. The alumni's **Mr. Mohammad Bharmal** and **Mr. Viraj Nagariya** interacted with the students of the ongoing batches. They discussed about preparation of GATE. They gave advice about how to prepare for GATE and how to outperform in the same.



| ALUMNI INTERACTIONS

Alumni Interaction 3: Mr. Bhavik Khoshiya

Date: 28th August, 2021

Time: 12:15PM-1:00PM

Mr Bhavik Koshiya -our alumni- from 2014 pass out batch, interacted with our 19 students attendees of all semesters. He guided students for a lot of opportunities in the Biotechnology field in Germany. He shared his experiences of Masters' Thesis there with German university.

He insisted knowledge based learning from Bachelor's degree courses before doing Masters. He guided students for part time jobs, industrial projects, internships and recommended for other parallel opportunities for study and jobs in Germany. He assured to help all our students who wished to seek any kind of help from him.



| INDUSTRIAL VISIT

Place: Fishfa Biogenecis, Metoda

Date: 7th September,2021

The Industrial visit to NASCO was organized on 7th September 2021. “NASCO”– Nano Agro Science co-operative Society Ltd, which is registered under Multi State Co-operative society by the central registrar of Co-operative society under the Department of Agriculture & Co-operation, Ministry of Agriculture, Govt. of India, New Delhi.

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 industry works and to comprehend genuine industrial applications of biotechnology.



| INDUSTRIAL VISIT

Place: Muni Sewa Ashram, Vadodara

Date: 10th September, 2021

Time: 8:00PM-12:30PM

This Industrial visit was organized for semester 3rd, 5th and 7th students. Mr. Deepak Gadhia Trustee of MSA and director of **Muni Sewa Ashram** - Renewtech Foundation has guided for understanding of various technologies established by themselves. Some of the Ashram's efforts towards promoting the use of renewable energy are: Solar Air-Conditioning, Solar Water Heater and Biogas plant.



At the ashram's gaushala, there is a Khadi village and a commission biogas plant. It generates gas from kitchen waste, which is pumped across the road to the kitchens

| INDUSTRIAL VISIT



Solar flat plate collectors are used to heat 31,000 litres of water that is used every day at the Ashram's kitchens, guest houses, and hospitals.



Boiler is used to power the hospital and ashram.



Fuel Palates is used to fuel the boiling process.

| INDUSTRIAL VISIT

Place: Sun Agri Genetics, Vadodara

Date: 10th September, 2021

Time: 4:00PM-5:30PM

Plant tissue culture laboratory named as **Sun Agri genetics**, where the scientist Mrs. Daksha Bhatt explained us about their organisation and also added her work experience. She gave us brief introduction about plant tissue culture and showed us laboratory techniques on her computer due to contamination issue. After that she showed us the plants which were cultured using plant tissue culture technique in her lab. Her nature was nice and she explained where we can apply plant tissue culture and that experience was amazing.



Mrs. Daksha Bhatt explaining importance of computational importance in plant-tissue culture.

| INDUSTRIAL VISIT

Place: Balaji Wafers Pvt. Ltd.

Date: 28th November, 2021

On 28th Nov 2021, the industry visit was scheduled at M/S Balaji Wafers Pvt. Ltd. where all food-related operations attracted the students and it proved thought-provoking. In this visit, we got the knowledge about how the mass production of various products from Balaji Wafers Pvt. Ltd. This industrial visit was organized for semester 3rd students.



| RESURGENCE

Date: 14th October, 2021

Time: 6:00PM-9:00PM

A garba competition was organized on 14th October along with farewell of final year student.



| NAVRANG

Date: 4th September, 2021

A sports and cultural activity event was organized along with competitions like carrom competition, chess competition, Badminton competition, script writing, photography competition and Dance competition etc.



SSIP GRANT

Project title: Vegan Milk: Whites of Greens

Vikas and Kashish were selected as best 3 projects for SSIP from college and they grabbed the opportunity to demonstrate their project at AVPTI COLLEGE. Event was held on 7th august 2021 by gtu innovation council and avpti jointly. The project identified the problems associated with current dairy products like animal exploitation, lactose intolerance, unsustainable practices for ecosystem etc. Team developed plant based dairy alternatives that are healthy for body and environment.



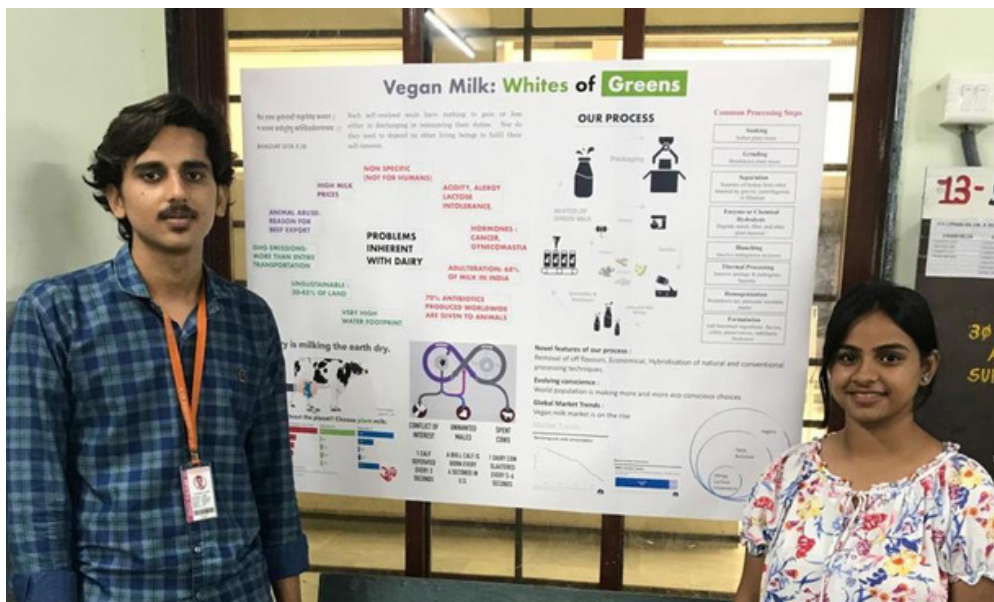
Kachhiya Vikas
sem 7



Jhaveri Kashish
sem 7



Kapadiya Deep
sem 3



Vikas and Kashish at AVPTI

| RESULTS SEM 3



Jilka Kishan

10.00 SPI



Ruparel Neel

9.53 SPI



Vara Prakruti

8.84 SPI

| RESULTS SEM 5



Bhatt Rajiv

8.65 SPI



Mehta Vishva

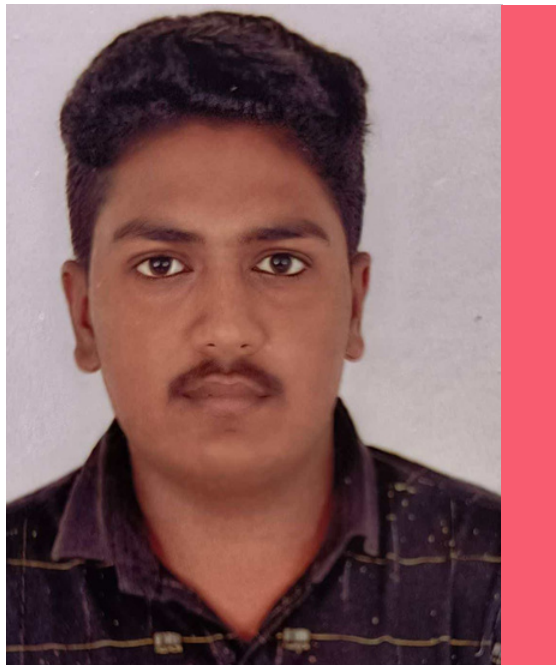
8.57 SPI



Chhatbar Ruksar

8.43 SPI

| RESULTS SEM 7



Sardhara Mayank

8.00 SPI



Pampaniya Dhruvik

7.39 SPI



Ladani Disha

7.30 SPI

| GLIMPSE OF PLACEMENTS 2021



Joshi Meet

Trainee Executive,
Intas pharmaceutical Pvt Ltd



Rathod Dharmistha

Trainee in R&D, US
Intas pharmaceutical Pvt Ltd



Udani Kush

Apprentice CPL biologicals,
(unit of Cadila Pharmaceutical Ltd.
and NovaMax,USA)



Ghetiya Dharmik

Officer in Design and Development
Premier Medical Corporation
Limited

| GLIMPSE OF PLACEMENTS 2021



Vegad Nisha
Trainee in R&D, US
Intas pharmaceutical Pvt Ltd



Sitapara Khanjan
Officer in Design and Development
Premier Medical Corporation
Limited



Selani Jeel
Trainee,
Intas pharmaceutical Ltd(biopharma), Ahmedabad

|OUR FEW RECRUITERS



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જેડીયા સાગર સાવલીયા કિર્ણવી રાસભરા ચિરાગ ગોહિલ ઓમદેવસિંહ

ગુજરાત સરકાર દ્વારા બાયોટેક કંપનીઓમાં નોકરી મેળવતા વીવીપી કોલેજના છાત્રો

રાજકોટ તા.૨૪ નવી વિકસીત થતી બ્રાંચ જે વિદેશમાં બહુ જ લોકપ્રિય છે તેવી બાયોટેકનોલોજીનો કોર્સ સમગ્ર ભારતમાં બુજ્જ જગ્યાએ ચાલે છે.

બાયોટેકનોલોજીએ કુદ ઈન્ડસ્ટ્રીઝ, ફાર્મા ઈન્ડ. તથા એગ્રીકલ્ચર જેવા ક્ષેત્રોમાં ગુજરાતમાં અનેક અને વાસ્તવિક યોગદાન શરૂ કર્યું છે. ગુજરાત સરકારના જીએસબીટીએમ (ગુજરાત સ્ટેટ બાયોટેક મિશન) દ્વારા બી.ઈ. કોર્સ કરેલા બાયોટેકના વિદ્યાર્થીઓને નોકરી અપાવી છે.

ફરમેન્ટેશન પ્લાન્ટમાં કોન્કોઈ બાયોટેક, મહેસાણા ખાતે ઓમદેવસિંહ ગોહિલે નોકરી મેળવી છે. કેન્સરના ક્ષેત્રમાં કાર્બરત એવી ડાયડસ હોસ્પિટા ઓન્કોલોજી, અમદાવાદ ખાતે ઉર્જસ્વીબેન સાવલીયાએ જોબ મેળવી છે. આ પહેલા પંજાબ આ કંપનીમાં જ અમીબેન દવેએ વીવીપીના બી. ઈ-બાયોટેક કોર્સ કર્યા બાદ અહીં નોકરી સ્વીકારી હતી.

મેડીકલ ક્ષેત્રે હાલ ભારતમાં ડયાબીટીઝ તથા કેન્સર જેવા નામચીન રોગોને મટાડ કરવા કેન્દ્ર સરકાર તથા ગુજરાત સરકારના આ વિભાગો દ્વારા વિદ્યાર્થીઓને આ ક્ષેત્રમાં પ્રોત્સાહન આપવાની યોજના માત્ર કાગળ પર નહિ પરંતુ વાસ્તવિકતામાં રહેલી છે.

નેનો એટ્રો સાયન્સ રાજકોટ ખાતે પંજાબ બાયોટેકની નોકરીની તકો રહેલી છે જેમાં અગાઉ ૪ વિદ્યાર્થીઓ અને હાલ સાગર જેડીયા કામ કરી રહ્યા છે. તેઓ બી.ઈ. બાયોટેકના વિદ્યાર્થીઓ હતા. વિદ્યાર્થીઓને પ્લેસમેન્ટ બદલ સંસ્થાના મેનેજિંગ ટ્રસ્ટી લલિતભાઈ મહેતા, ટ્રસ્ટીઓ કીશિકભાઈ શુક્લ, ડો.સંજીવભાઈ ઓઝા, હર્ષલભાઈ મણીયાર તથા પ્રિન્સીપાલ ડો.જયેશભાઈ દેશકરે અભિનંદન પાઠવ્યા છે. - ગુજરાત માર્ ૨

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BIOTECHNOLOGY - A PROMISING CAREER

— Dr. Arun Ninawe

JOB HIGHLIGHTS

UPRVUNL

- U.P. Rajya Vidyut Utpadan Nigam Ltd. requires 487 Assistant Engineer (Trainee), Junior Engineer (Trainee) and Account Officer.

BSNL

- Bharat Sanchar Nigam Limited, Haryana requires 256 Telecom Technical Assistants.
- Bharat Sanchar Nigam Limited, Rajasthan needs 219 Telecom Technical Assistants.
- Bharat Sanchar Nigam Limited, Tamilnadu needs 213 Telecom Technical Assistants.
- Bharat Sanchar Nigam Limited, Maharashtra needs 190 Telecom Technical Assistants.
- Bharat Sanchar Nigam Limited, Chennai requires 151 Telecom Technical Assistants.
- Bharat Sanchar Nigam Limited, Uttar Pradesh needs 73 Telecom Technical Assistants.

Bio-Technology is recognized as a discipline where basic and applied sciences work together. It is a research oriented science, a combination of Biology and Technology and covers a wide variety of subjects like Genetics, Biochemistry, Microbiology, Immunology, Virology, Chemistry, Engineering and subjects like Health and Medicine, Agriculture and Animal Husbandry, Cropping system and Crop Management, Ecology, Cell Biology and Biostatistics etc. The multibillion dollar biotechnology industry in a broad sense uses organisms, cells or molecules isolated to make products or processes having large applications benefiting the sectors of health, agriculture, animal resources, aquaculture, energy, forest, environments etc.

There is a great scope in this field as the demand for biotechnologists is growing both at home and abroad. Job opportunities extend to Post-Doctoral Research in Biotechnology can also be pursued.

Integrated M.Tech. programme offered at IIT Delhi and Kharagpur is through a Joint Entrance Examination (JEE), which is held for students who have successfully completed the 10+2 or equivalent examination with physics, chemistry and mathematics. For admission to IIT, a pass in the IIT-JEE is required. The Jawaharlal Nehru University, New Delhi, AIIMS, Jadavpur University, Kolkata and Anna University also offers integrated M.Tech course. Selection to the graduate courses (BE/B.Tech) is based on merit. The marks secured in the final exams of 10+2 and through entrance exams. Entrance to the IIT's is through JEE (Joint Entrance Exam) and for other institutions through their own separate entrance exams and other state level and national level exams. IIT's institutes also recognize JEE scores for selection. Selection to

to grow to 30,000 (research 50%, technical/services 35%, management 15%). A number of companies have entered the field, some with foreign collaborations, opening tremendous job opportunities. The sector players in the industry are not only using recombinant DNA technology but also applying biotechnology principles to various biotech-based areas viz. floriculture, tissue culture and industrial application of biotechnology like enzymes industry, fermentation & biochemicals etc. Several private industries viz. pharmaceuticals, breweries, sugarcane institutes and science foundations are working on various fields like new drug development, improved products and processes, new breeds, tissue culture, biopesticides and enzyme production etc.

DBT (The Department of Biotechnology) has therefore, launched an integrated Manpower Development Programme which

needs certain skill of problem solving, information technology skill, analyzing and interpreting skills.

Bio-technologists can find careers with pharmaceutical companies, chemical, agriculture and allied industries. Large scale employment in research laboratories run by the government as well as the corporate sector. Biotechnology students in India may find work in a government-based entity such as universities, research institutes or at private centers as research scientists/assistants. The work scope can range from research, sales, marketing, administration, quality control, breeders, technical support etc. Armed with this powerful combination of fundamental cell and molecular biology and applied science, graduates are well placed to take up careers in plant, animal or microbial biotechnology laboratories or in horticulture, food science,

તબાઈ શાન ખાસ પાના છે અને યુવા દ્વીપ અલ્પજાત પુનમ દિવસે પુસ્તકોમાં ટીમ સંલેખન ડિઝાઇનથી શુભા મોર્યાના પ્રદેશ કમિશનર પટેલ તેમજ અન્ય સુકલ પિંડેશ મેળાનામાં એ સંસ્થા પ્રથમા યુવા માર્ગદર્શના પુસ્તકો સ્થાપના માટે રાજકોટના મેન પુર્વેને સ્થાપના ભાગના સાર્વાચક અને રચનાકર્તા એમ.કાર્મસી (બાયોટેક પ્રમુખ કેન્દ્ર) સિવાયના કાર્યકર્તાઓની (જાકી), પ્રદિપ ડવે (જાકી) આ અધિવેશનમાં સ્થી રાજકોટના યુવા



દ્વીપ વિષયુષિ આદ્ય ઠરાવના સંસ્થાની સાથે જાણી સ્થાપના પ્રથમવાર અંતરિક્ષા િનું ચિત્ર લેવાયુ. આઠીવે અંતરિક્ષામાં જા રોબોટનું પરીક્ષણ

જીટીયુ ડીપ ટેક, બાયોટેકનોલોજી અને બાયોમેડિકલ ક્ષેત્રે રાજ્યનું પ્રથમ ઈન્ક્યુબેશન સેન્ટર સ્થપાશે

▶ આઈઆઈટી મુંબઈ, એલ.એમ.કાર્મસી કોલેજ અને એક્યુપ્રેક રિસર્ચ લેબ્સ સાથે જીટીયુના કરાર

રાજકોટ તા.૨૪ અમદાવાદ નુજવાન ટેકનોલોજીકલ યુનિવર્સિટી ડીપ ટેક, આરોગ્ય, બાયોટેકનોલોજી અને બાયોમેડિકલ ક્ષેત્રમાં રાજ્યનું સૌપ્રથમ અન્યાયુનિક અટલ ઈન્ક્યુબેશન સેન્ટર સ્થપાશે. આનું નાઈટક કેન્દ્ર સ્થાપવા માટે જીટીયુએ આઈઆઈટી-મુંબઈ, એલ.એમ.કાર્મસી કોલેજ અને એક્યુપ્રેક રિસર્ચ લેબ્સ સાથે કરાર કર્યો છે.

આઈઆઈટી-મુંબઈ ખાતે યોજાયેલા કેમ્પમાં ભાગ લીધો હતો અને ક્લબક્ટ વિક્રમ માખની સમસ્થ વિશેનો પ્રોજેક્ટ તૈયાર કર્યો હતો. તેમની ટીમે આઈઆઈટીની માઈને પ્રુક ઓફ કન્વેપ્ટ વિકાસવા સહિતની કામગીરી કરી હતી. ડોક્ટરો, ઉદ્યોગપતિઓ, કેન્દ્રવર્ણીકારો અને ઉદ્યોગ સાલવિકો સહિત ૧૦ સભ્યોની જૂવરીએ જીટીયુના પ્રતિનિધિતા પ્રોજેક્ટની પ્રસંશા કરી હતી અને ઈનોવેશન એવોર્ડ આપ્યો હતો. તે એવોર્ડ આઈઆઈટી-મુંબઈના ડિરેક્ટર દેવાં વિધીન ખખખરના હસ્તે એનાવત કરવામાં આવ્યો હતો.

જીનની સૌ પ્રથમ એલ.એમ.કાર્મસી કોલેજ અને ઈન્ડસ્ટ્રી પાર્ટનર તરીકે એક્યુપ્રેક રિસર્ચ લેબ્સ સાથે ફાળુ કરાર કરવામાં આવ્યા છે. એવી માનિતી જીટીયુના ચાવસ પાન્સેલર પ્રો(ડો.) નવીન શેઠે આપી હતી.

જીટીયુ ઈનોવેશન કાઉન્સિલ (જીઆઈસી) ટીમના સભ્ય નુજાર પંચાલે આપ્યો હતો.

પીઠાલય પૂર્વે પાઠનાર્ક આ ટેકનું સૌપ્રથમ ઈન્ક્યુબેશન સેન્ટર બનશે. તેના માટે અટ્ટા કોઈસ્ટ્રીક્ટે વેબોટેટી સહિતની સુવિધાઓ વિકાસવામાં આવશે. આ કોલેજ જીટીયુ સાને સંક્રાવાયેલી લેવાથી જીટીયુના સેન્ટર અને આઈઆઈટી-મુંબઈ સાથેના તેના નેટવર્કીંગ સહયોગનો અમને ફાળુ લાભ મળશે. એમ કોલેજના ચિન્નીપાલ ડો. એમ.ટી.છાબરીયાએ જણાવ્યું હતું.

બીજાબાજુ આ સેન્ટરમાં ઈન્ડસ્ટ્રી પાર્ટનર તરીકે સેવા આપનાર એક્યુપ્રેક રિસર્ચ લેબ્સના ડિરેક્ટર અને સીએમઓ મયુર કંડોરીયાએ જણાવ્યું હતું કે કાર્મસી ઉદ્યાનમાં સંક્રોબના સેને કોન્સ્ટ્રક્ટ રિસર્ચ ઓર્નાઈકલ (સીઆરઓ) તરીકે અમે સેવા આપી રહ્યા છીએ. ઈન્ડસ્ટ્રી બાયોટેકનોલોજીમાં અમારા સંક્રોબનો તથા ઈનોવેશનનો લાભ વિદ્યાર્થીઓ તેમજ ઉદ્યોગ સાલવિકોને મળી રહે એવો અમારો પ્રવાસ રહેશે. અમારી ટીમના નિજાતાનો લાભ જીટીયુના અટલ ઈન્ક્યુબેશન સેન્ટરને મળશે. કાર્મસી અને આઈઆઈટીમાં યુનિવર્સિટી અમને તાલીમ પામેલા વિદ્યાર્થીઓ પુરા પાડની થાય એવી અપેક્ષા સાથે અમે આ કરાર કર્યો છે.



હોકી સ્પર્ધામાં રાજ્યકક્ષાએ પસંદગી

ચેમ્બરમાં 'ચેલેન્જર ઈન બાયોટેકનોલોજી' વિષય પર સેમિનાર યોજાયો

બાયો ટેકનોલોજીમાં ડ્યુચર સારું એટલે સ્ટુડન્ટ્સની સંખ્યા પણ વધી

સિટી રિપોર્ટર | સુરત

‘ધ સ્પર્ધન ગુજરાત ચેમ્બર ઓફ કોમર્સ એન્ડ ઈન્ડસ્ટ્રીના ઉપક્રમે બાયોટેકનોલોજી વિશે સેમિનાર યોજાયો હતો. આ સેમિનારમાં વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટીના ડિપાર્ટમેન્ટ ઓફ બાયોટેકનોલોજીના કો-ઓર્ડિનેટર ડો.ગૌરવ શાહે ‘ઓપોર્ચુનિટીઝ એન્ડ ચેલેન્જર ઈન બાયોટેકનોલોજી’ વિષય પર વાત કરી હતી, જ્યારે સુરત રક્તદાન કેન્દ્ર અને રીસર્ચ સેન્ટરના ડો.કન્જશા ધોષે ‘સ્ટેમ સેલ થેરાપી એન્ડ બેકિંગ : કરન્ટ આર્ટ એન્ડ ડ્યુચર મેડિસીન’ પર વાત કરી હતી. આ કાર્યક્રમમાં ડો.કૌશિક શાહે જણાવ્યું હતું કે ‘તબીબી વિજ્ઞાનની અન્ય શાખાઓની જેમ જ બાયો ટેકનોલોજીનું મહત્વ દિવસે દિવસે વધી રહ્યું છે અને વધુ વિદ્યાર્થીઓ આ શાખામાં જોડાઈ રહ્યા છે. જ્યારે દવાઓ માટેના સંશોધનો થતા હોય ત્યારે દવાની આડઅસરોની શક્યતા પણ રહે છે એનો અંદાજ

ઓપોર્ચુનિટીઝ એન્ડ ચેલેન્જર ઈન બાયોટેકનોલોજી વિષય પર વાત કરતા વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટીના ડિપાર્ટમેન્ટ ઓફ બાયોટેકનોલોજીના કો-ઓર્ડિનેટર ડો.ગૌરવ શાહે જણાવ્યું હતું કે ‘આ વિષય ઘણો જ વિશાળ છે અને એમાં આગળ વધવા માટેની ઘણી તકો છે અને પડકારો પણ ઘણા છે. સતત સંશોધનો થતાં રહે છે અને એમાંથી માનવજાત માટે ઉપયોગી ઔષધો અને ટેકનોલોજી મળે છે. એમણે બાયો ટેકનોલોજી, જેનેટીક, એન્જિનિયરિંગ અને ગ્રીન ટેકનોલોજી વિશે પણ વિસ્તૃત જાણકારી આપતા જણાવ્યું હતું કે ‘બાયો ટેકનોલોજીની મદદથી ખેતીની પેદાશ પણ વધારી શકાય છે અને પર્યાવરણ રક્ષા માટે પણ કામ થઈ શકે છે.’ સુરત રક્તદાન કેન્દ્ર અને રીસર્ચ સેન્ટરના ડો.કન્જશા ધોષે ‘સ્ટેમ સેલ થેરાપી એન્ડ બેકિંગ : કરન્ટ આર્ટ એન્ડ ડ્યુચર ઓફ મેડિસીન’ વિશે વાત કરતા જણાવ્યું હતું કે ‘રક્તના કોષો, પેલેટ્રસ અને રક્તદાનથી ઘણાના જીવન બચી શકે છે. લોકોમાં આ વિશે જાગૃતિ લાવવા માટે વિવિધ કાર્યક્રમનું આયોજન કરવું જોઈએ.’ એમણે શરીરમાં બનતા નવા કોષો અને નાશ પામતા કોષોના સંતુલન વિશે, બોનમેરો ગ્રંથી અને સ્ટેમ સેલના મહત્વ વિશે તેમજ આ ક્ષેત્રમાં ચાલી રહેલા નવા સંશોધનો અને એના તારણો વિશે પણ વિસ્તૃત જાણકારી આપી હતી.

Swami Vivekananda

“Take risks in your life,

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



વી.વી.પી. એન્જીનીયરીંગ કોલેજના વિદ્યાર્થીઓ માટેની પ્રતિજ્ઞા



પ્રિન્સીપાલ - ડો. જયેશ દેશકર દ્વારા રચિત....



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