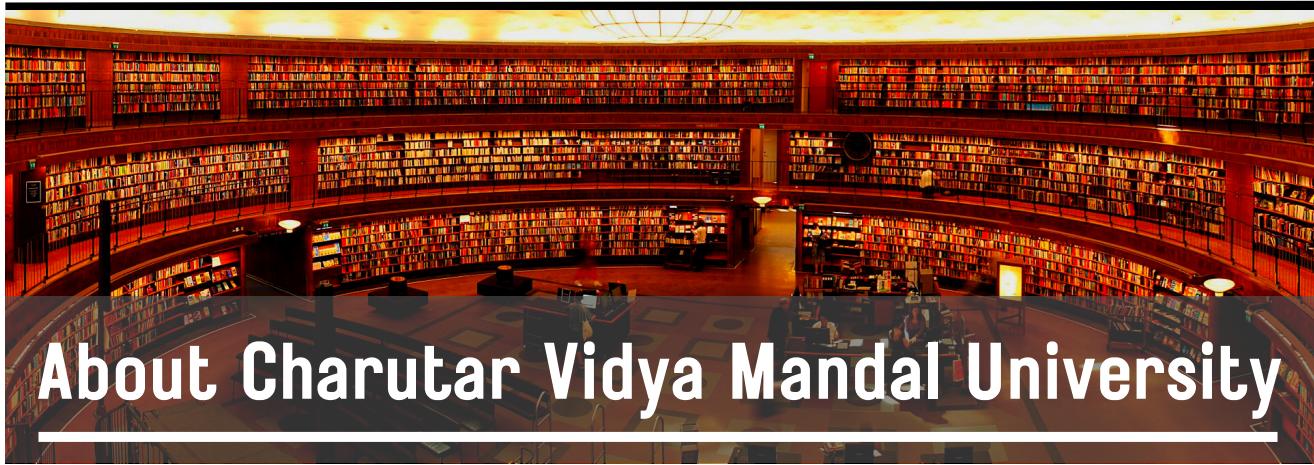


Newsletter

YANTRIK 6.0

Edition: April 2022





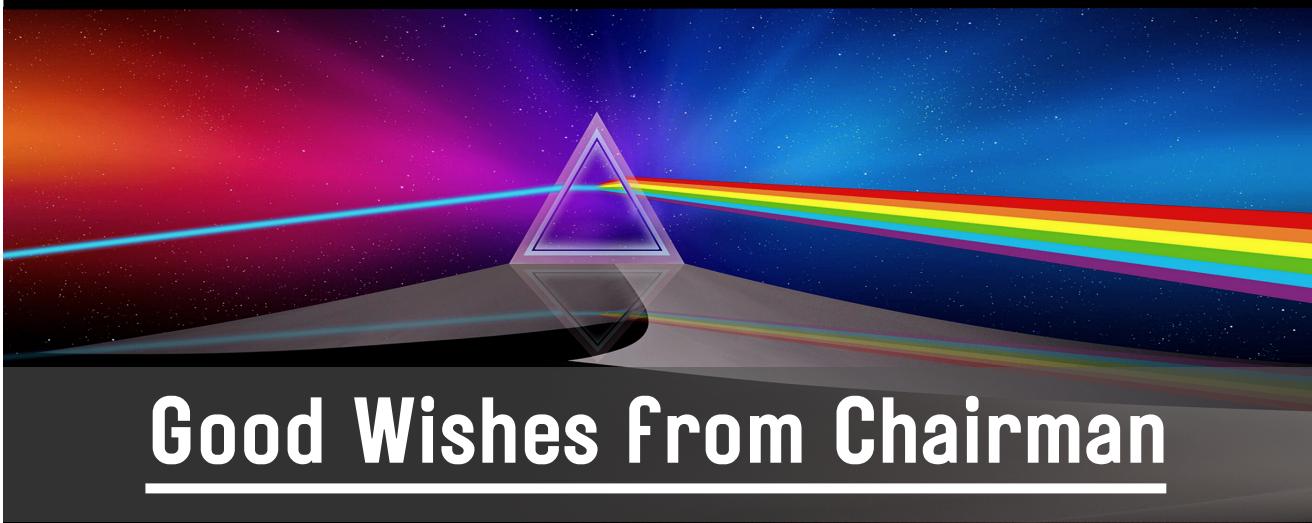
THE CHARUTAR VIDYA MANDAL UNIVERSITY (CVM University, Estd. 2019), Vallabh Vidyanagar-388120, Gujarat, India is a leading University in Gujarat having a strong lineage of Pre-Independence era (1945 onwards) (Managed and Sponsored by one of the oldest Trusts of Gujarat Charutar Vidya Mandal (CVM)) was established with a vision of Sardar Vallabhbhai Patel.



University Grants Commission (UGC), Govt. of India has empowered the CVM University to award Degrees under Section 22 of UGC Act 1956.

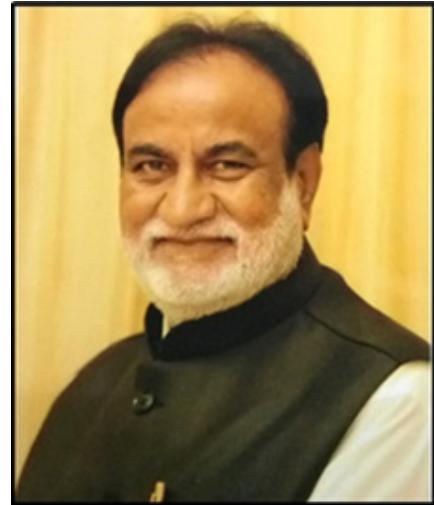
CVMU legacy of knowledge aims to enlighten the future generations by inspiring innovation and futuristic thinking. The former was to be devoted to the cause of education, that is, establishing colleges and schools and the latter meant to produce the building materials for educational institutions and residential quarters. They were registered on August 10, 1945 and September 7, 1945, respectively. Bhaikaka and Bhikhabhai came to reside in the wilderness in a hut measuring 8 ft x 10 ft on March 3, 1946.

The town is the synthesis of varied cultures, which enable it to evolve and expand the quality life, as well as to foster the environment of creativity amongst the student citizens. Those who stay here always cherish the golden moments of life on the campus. Today, the town has compounded in strength and consolidated itself to take on the challenges of emerging future.



Good Wishes from Chairman

Education is said to be the transmission of knowledge, culture and civilization. After more than seven decades of its establishment by visionaries, Shri Bhaikaka and Shri Bhikhabhai Saheb and inspiration by Shri Sardar Vallabhbhai Patel, Vallabh Vidyanagar of today seem like the fulfilment of Tagor's vision of a new India: "The inner spirit of India is calling us to establish, in this land, great centre, where all her intellectual forces will gather for the purpose of creation, and all her resources of knowledge and thought, Eastern and Western, will unite in perfect harmony."



Er. Shri Bhikhubhai B Patel
Chairman, Charutar Vidya Mandal
President, CVM University

Today, when aspirations are moving sky-high and students are constantly challenged by a competitive and dynamic world, we strive to include confidence and competence in our students and equip them to face the challenges for years to come.

I take the opportunity to introduce "A. D. PATEL INSTITUTE OF TECHNOLOGY", a constituent college of the largest private university in Gujarat 'CVM University'. Earlier the institute was affiliated with Sardar Patel University and Gujarat Technological University.

We intend to make everything possible to extend a helping hand for the students to get geared up for the global spectrum in the 21st century, rightly called to be the century of knowledge.

Message from Principal

Mechanical Engineering Department, ADIT has been creating great value for its students, industry and society at large.

The members of the ADIT Mechanical Engineering fraternity are contributing to various national and multinational companies in the Infrastructure, Manufacturing and Energy sectors passionately.

The department has well - equipped laboratory with state-of-the-art instrumentation where students are imparted practical and hands-on experience.

Students have been undertaking challenging projects, industrial training and bringing aurels to the institute.

I congratulate the department on bringing out the newsletter which will enable stakeholders to get aware of the achievements of faculty and students of the mechanical engineering department.



Dr. Vishal Singh, Principal
A. D. Patel Institute of Technology

Message from H.O.D

I have great pleasure and pride to announce that the Department of Mechanical Engineering, ADIT, Karamsad is publishing its Sixth newsletter in April 2022. This newsletter will help to share the event, news, and achievements of the department among the ADIT fraternity.

The department cares for student support, mentoring, tutoring, study skills workshops and career development. Mechanical Engineering students culminate their studies with a year-long capstone project requiring design problem solving, creative thinking, project planning and teamwork.

A broad selection of technical electives encourages students to pursue special interests in design and manufacturing, energy and environmental issues, thermal and fluid sciences materials, dynamics & controls and robotics.

I would like to congratulate all faculty members and students for their sincere effort to realize this new publication. I earnestly wish and sincerely hope that this new publication turns out to be a resounding success.



Dr. Yashavant Patel, H.O.D
Mechanical Department

Message from Editor's Desk

I feel great pleasure and happiness to announce the onset of the 6th edition of the Mechanical Engineering Department Newsletter "YANTRIK." The department highly prioritises holistic student grooming by providing them with a spectrum of opportunities in academic as well as non-academic activities. My sincere gratitude to Dr. Yashavant Patel, Head of the Department. I also feel joyous to thank my faculty colleagues who have contributed to the accumulation and compilation of necessary data and the Student T&P Coordinators of the Department for their selfless efforts and contribution to YANTRIK 6.0.

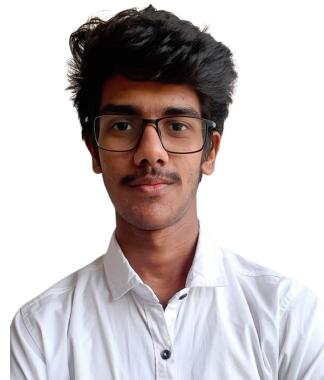
I feel highly gratified to avail this opportunity of being a part of ADIT, Mechanical Department Newsletter Committee. I thank our honourable Principal, Dr Vishal N Singh, HOD, Dr Yashvant D Patel and Prof. Mehul B Patel for enduring me to showcase the excellence of our department via this document.

This is the 6th Edition of the Yantrik Newsletter. We aim to provoke a sense of ecstasy and motivation amongst the students as well as faculty members by illustrating the activities done throughout the year 2021-22.

It is indeed a great honour to be the Newsletter Content creator for Mechanical Engineering Department. It is an immense pleasure to launch this Sixth edition for 2022. A huge thank to all the people who contributed in writing this wonderful edition and for their efforts without which there wouldn't have been this newsletter issued. Last but not the least, I would like to thank Dr. Yashavant Patel, Head of the Department and Mr. Mehul Patel, Assistant Professor for their everlasting support throughout the creation of this edition and to give us this opportunity.



Prof. Mehul Patel
Assistant Professor



Bhavya Rambhia
T&P Coordinator



Karan Patel
T&P Coordinator

Yantrik Newsletter Team:

Dr. Yashavant Patel
Head of Department

Prof. Mehul Patel
Chief Department Editor

Bhavya Rambhia
Design

Karan Patel
Content



About Institute and Department

A. D. Patel Institute of Technology (ADIT) is a Degree Engineering College established in the year 2000, in affiliation with SPU, GTU, and now CVMU under the management of Charutar Vidhya Mandal (CVM). The college has a 40-acre campus developed by CVM as New Vallabh Vidyanagar.

Vision:

To add significance to our enduring civilized tradition of pioneering excellence in learning, knowledge, enlightenment and self-realization in a universally relevant context.

Mission:

We dedicate to the perpetuation of our founders' vision of providing the infrastructure, facilities, operating conditions and overall environments conducive to the education of young scholars, along with the desired physical, mental & character-building inputs; we firmly renew our commitment to providing value-added, globally relevant education with an emphasis on the techno-management domain, to ensure that our scholars fruitfully exercise their knowledge, skills & values in the global economy.

The Department of Mechanical Engineering was established in the Academic year 2000-2001. Our department is having young, supportive and well-qualified teaching staff.

Vision:

Nurturing a universally relevant knowledgeable & skilled human resource in mechanical engineering.

Mission:

- Imparting value-based knowledge that students can utilize in the real world.
- Offering industry-relevant hands-on practice & project-based training.
- Providing quality infrastructure & learning inputs.

Faculty Members of Department



Dr. Vishal Singh
Principal



Dr. Yashavant Patel
Head & Associate
Professor



Dr. Mitesh Shah
Professor



Kalpesh Shah
Assistant professor



Dr. Ayanesh Joshi
Assistant professor



Dr. Ronak Shah
Assistant professor



Manisha Makwana
Assistant professor



Bhaumik Sheth
Assistant professor



Bala Dutt
Assistant professor



Sankalp Bhatia
Assistant professor



Mehul Patel
Assistant professor



Krunal Shah
Assistant professor



Harsh Joshi
Assistant professor



Tejas Prajapati
Assistant professor



Ruchir Desai
Assistant professor



Sanjiv Rajput
Assistant professor



Mitul Malli
Assistant professor



Maharshi Thakkar
Assistant professor

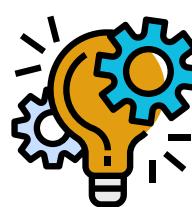


Vaishal Banker
Assistant professor



Government Project Proposals

| Sr. No | Name of Principal Investigator | Name of the research project | Name of funding agency | Date of submission | Outlay (in Lacs) |
|--------|---|--|---------------------------------------|--------------------|------------------|
| 1 | Dr. V. N. Singh | Design and development of 100W proton exchange membrane fuel cell | Student Startup and Innovation Policy | Jun-21 | ₹ 63,661 |
| 2 | Prof. Mitul Malli | Manual Controlled Electric Operated Rover for Agricultural Purpose | Student Startup and Innovation Policy | Jun-21 | ₹ 15,900 |
| 3 | Prof. B. J. Sheth | Development and Testing of Waste Plastic Pyrolysis System | Student Startup and Innovation Policy | Jun-21 | ₹ 20,063 |
| 4 | Dr. Y. D. Patel | Prototype development of CNC Plasma arc cutting machine for circular components | Student Startup and Innovation Policy | Jun-21 | ₹ 16,038 |
| 5 | Dr. Y. D. Patel | Development of 3D Printer | Student Startup and Innovation Policy | Jun-21 | ₹ 11,497 |
| 6 | Dr. Y. D. Patel | Gyroscopic coupled Hoberman sphere as safety system for quadcopter | Student Startup and Innovation Policy | Jun-21 | ₹ 6,551 |
| 7 | Prof. Krunal J. Shah | Advanced strategic and rescue vehicle RSE320 | Student Startup and Innovation Policy | Oct-21 | ₹15,000 |
| 8 | Dr. Vishal N Singh and Dr. Mitesh I. Shah | Numerical Simulation & Experimental Analysis of 3-D Printed Stack for Performance enhancement for Different gas Medium in Standing Wave Thermo acoustic Refrigerator | Student Startup and Innovation Policy | Jul-21 | ₹18,000 |





MOU's Signed with Companies

Pump Square Systems, Vithal Udyognagar, Anand

Memorandum of Association between ADIT and Pumpsquare Systems LLP for consultancy work.

This Agreement is made on 25th January, 2021 between A.D. Patel Institute of Technology, Vithal Udyognagar, New Vallabh Vidyangar-388 121, Gujarat and pump square systems llp, Plot No. 1903, Phase IV Vithal Udyognagar. The A.D. Patel Institute of Technology will hereafter refer as **ADIT**.

Objective

The MoA is aimed at offering professional engineering consultancy services/Research jointly between ADIT and Pumpsquare Systems LLP in the following fields:

1. Use of software available at ADIT for research work.
2. Development of Turbo Machinery lab.

Pumpsquare Systems LLP obligations

- Pumpsquare Systems LLP would leverage the capabilities (human resource and infrastructure) of ADIT for obtaining the consultancy/Research work.
- The nature, scope and liabilities of consultancy/Research work obtained would be divided between ADIT and Pumpsquare Systems LLP based on mutual agreements for each consultancy/Research work individually.
- The nature of association will be non exclusive. That is i.e. Pumpsquare Systems LLP would be free to enter in association with other entities.

ADIT's obligations

- ADIT would offer available resources (human resource and infrastructure) for consultancy/Research work on cost basis to be decided for each consultancy work mutually.
- The nature, scope and liabilities of consultancy/Research work obtained would be divided between ADIT and pump square systems llp based on mutual agreements for each consultancy/Research work.
- The nature of association will be non exclusive. That is i.e. ADIT would be free to enter in association with other entities.
- ADIT will review and suggest/draft/fix technical issue, if any to Pumpsquare Systems LLP.
- All consultancy/Research work will remain **CONFIDENTIAL**. Pumpsquare Systems LLP & ADIT.

Other points

- Publications, if any, based on the consultancy/Research work will necessarily include name of respective contributors from both parties subject to consent of both.
- IPR, if any, arising from the work will be jointly owned by ADIT and Pumpsquare Systems LLP.



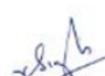
For Pumpsquare Systems LLP
C.H. Tarell Luis
Partner

Duration

This MoA will remain effective for 3 Years with effect from the date of signing of this document by both the parties. Thereafter, it may be reviewed for possible extension. Either party may terminate the agreement by written notification signed by the appropriate official of the institution initiating the notice. Such notice must be received by the party at least three months prior to the effective termination date. However, obligations and commitments already contracted for and involving third parties shall be honoured and continued by both the parties until such commitments are completed.

Signed and executed 25th January, 2021 by the A.D. Patel Institute of Technology, New Vallabh Vidyangar and pump square systems llp for a period of 3 Years with the seals of both the parties affixed here below

For Pumpsquare Systems LLP
C.H. Tarell Luis
Partner



Dr V N Singh
Principal
A.D. Patel Institute of Technology
P.O. Box No. 52
Vallabh Vidyangar 388 120
New Vallabh Vidyangar 388 121

Mr. Chintan Turakhia
Partner
Pumpsquare Systems LLP
Plot. No. 1903, Phase IV,
G.I.D.C. Estate, Via Anand,
Vithal Udyog Nagar - 388121

Signed in the presence of



(Signature of Witness)



Signed in the presence of



(Signature of Witness)

Seal of the Company

The MoU is focused on upskilling a total of 50 engineering students across all branches (CSE/ECE/EEE/Mech/IT/Auto/Civil) of 3rd & 4th year. The benefits for the institution include:

- Up to 50% placement/internships for all eligible students
- SAP, Amul and L&T Center of Excellence on campus
- Industry relevant topics: AI, Machine Learning, IoT, Edge Computing & Professional development skills
- Enhanced branding for the institution
- Faculty development programs as part of the CoE



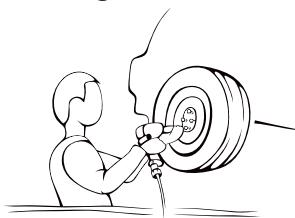
A Step Towards Academic Excellence

MG Motor's Non Operational Vehicle for Engineering Students of ADIT

MG Motors is one of the leading Automobile Manufacturing Industry has MoU with ADIT as many students of ADIT have joined their organizations from past three years through Campus placements. After various discussions between both Parties on 07/02/2022, MG has donated a non-roadworthy vehicle, Hector to ADIT, CVM University wherein ADIT, CVM University has confirmed that the donated Hector shall be used solely for education and training and other academic purposes.



Inauguration of MG Hector on 16th March, 2022.



MG Hector with parts labelling on vehicle

Considering student benefits, the Mechanical Engineering and Automobile Engineering students will get a big opportunity to study different automotive systems and parts in detail. PG students of CAD-CAM and Thermal Engineering may also get exposure of the same.



The inauguration/unveiling ceremony was held in the presence of Er. Shri Bhikhubhai Patel (President, CVMU), Prof. (Dr.) Prafulkumar Udani (DG, CVMU), Mr. Ravi Mittal (Director, Manufacturing engineering, MG Motor), Mr. Sameer Jindal (Director, Product engineering, MG Motor), Mausam Joshi (GM, HR, MG Motor), Mr. Ankur Sharma (AGM, Product engineering, MG Motor) and Mr. Archan Pujara (Manager, Product engineering, MG Motor).

By industry-institute interactions, MG Motor and ADIT can bridge the gap by introducing Vehicle of MG Motor and students will have opportunity for hands on experience of different vehicular systems



Academic Achievement of Students For Year 2021-22



Name: Dhiraj Sharma
SPI: 8.26
Year: 1st | Sem: 1
Enrollment No. 12102090601005



Name: Bhavya Rambhia
SPI: 8.7
Year: 2nd | Sem: 3
Enrollment No. 12002090601003

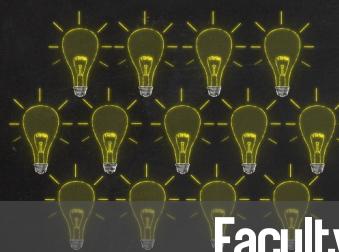


Name: Roque Vilanculo
SPI: 8.79
Year: 4th | Sem: 7
Enrollment No. 180010119074



Name: Akshit Sondagar
SPI: 9.17
Year: 3rd | Sem: 5
Enrollment No. 190010119031

* WELL *
* Done! *



Faculty Development Program (FDP) and Short Term Training Program (STTP)

| Sr. No. | Name of Faculty Member | Title of Activity |
|---------|------------------------|---|
| 1 | Dr. R R Shah | Buried Energy for Conservation and Energy Management |
| 2 | Prof. V J Banker | MATLAB Programming for Additive Manufacturing and 3D Printing (MPAM) |
| 3 | Dr. R R Shah | FDP on Alternative Fuels |
| 4 | Dr. M I Shah | FDP on Alternative Fuels |
| 5 | Prof. M V Makwana | FDP on "Innovations in Manufacturing of Novel Materials and Composites" |
| 6 | Prof. M V Makwana | Design Thinking: Aspirations for Innovations |
| 7 | Prof. M V Makwana | AICTE Training and Learning (ATAL) Academy FDP on Current Trend in Engineering Nano-Materials, Characterizations & Their Applications |
| 8 | Prof. H B Joshi | FDP on Modeling & Simulation in MATLAB for Mechanical Engineering |
| 9 | Prof. B J Sheth | Biowaste to Bioenergy: A future sustainable energy source |
| 10 | Prof. R J Desai | Robotics and Automation |
| 11 | Prof. M H Thakkar | Biowaste to FDP on Bioenergy: A future sustainable energy source |
| 12 | Prof. B J Sheth | Advancements in Refrigeration and Air Conditioning |
| 13 | Prof. V J Banker | The Essentials of IoT for Mechanical Engineers |
| 14 | Prof. M H Thakkar | National Conclave on Hydrogen - The Future Fuel |
| 15 | Prof. M B Patel | Word Processing with LaTeX |
| 16 | Prof. M H Thakkar | STTP on An Essence of Multiphase Flow: Challenges and Futuristic Technology |

Research Publications by Faculty Members

| Sr. No. | Name of Authors | Title of Paper | Year of Pub. and Month |
|---------|---|---|------------------------|
| 1 | Simit Prajapati, Mitesh Shah, Shivmurti Srivastav | Convective Hot Air Drying of Food Products: A Review | Sep-21 |
| 2 | Niravkumar Parmar, Vishal Singh, and Mitesh Shah | Design and Experimental Investigation on Liquid Nitrogen Cryoprobe for Cryosurgery | Dec-21 |
| 3 | Ronakkumar Patel, Vishal Singh, Mitesh Shah | Performance Analysis of 3D Printed Stack for Standing Wave Thermoacoustic Refrigerator | Dec-21 |
| 4 | Dr Ronakkumar R Shah, B. Sharmila, Dr Hitesh Panchal, D. Devasena | Modelling and performance analysis of electric vehicle | Jan-22 |
| 5 | Aryan J. Naik, Harshil V. Bhuvva, Devdeepsinh D. Rana, Janmesh B. Panchal, Vaishal J. Banker, Sankalp B. Bhatia | Parametric Optimization of Tensile strength and flexural strength in 3-D Printed components | Jan-22 |

Seminar and Webinar Organised at ADIT

ADIT A D PATEL INSTITUTE OF TECHNOLOGY
STUDENTS @ ISHRAE
INSTITUTION'S INNOVATION COUNCIL
CVM UNIVERSITY

HVACR QUIZ COMPETITION

Organised by
ADIT ISHRAE STUDENT CHAPTER & MECHANICAL ENGINEERING DEPARTMENT

DATE : 30/09/2021
TIME: 10:00 AM TO 11:00 AM
TARGET AUDIENCE: ADIT STUDENTS OF ALL BRANCHES

REGISTER NOW!
<https://forms.gle/Wm21X0CQh42Q88>

EVENT COORDINATORS
Dr. R R SHAH (+91 94263 75505)
Prof. M H THAKKAR (+91 85118 49931)

ADIT A D PATEL INSTITUTE OF TECHNOLOGY
FAILWISE®
Scipreneur
CVM UNIVERSITY

IGNITE YOUR IDEAS

Dr. Vijay Soni
Founder Scipreneur and Failwise
Institute of Management and Department of Medicine
Weill Cornell Medicine, New York, NY 10021, USA

Date : 31-07-2021
Time : 9:30 am to 10:30 AM
Target Audience : Students and Faculties
Platform : Zoom

REGISTER NOW!
<https://forms.gle/9tH1NfNq8k111111>

FEEL FREE TO CONTACT
Abhay Dasadai : +91 9426017285



ADIT A D PATEL INSTITUTE OF TECHNOLOGY
SSIP INSTITUTION'S INNOVATION COUNCIL
UNESCO FOUNDATION
CVM UNIVERSITY

CVM University Innovation and Startup Centre (CVMUSIC)

With Blessings from
Er. Shree Bhikhubhai Patel,
President, CVM University
PRESENTS AN EXPERT TALK ON
Being Entrepreneur

Organised by
A D PATEL INSTITUTE OF TECHNOLOGY
(A Constituent College of CVM University)

DATE : 23/10/2021
TIME: 11:00 AM TO 12:00 NOON
REGISTER NOW!
<https://bit.ly/3eHkR7>

CONVENOR : Dr. VISHAL SINGH
PRINCIPAL, ADIT

CLUSTER COORDINATOR, ESI CELL : Dr. Y D PATEL
HEAD, MECHANICAL ENGINEERING

FOR ANY QUERY PLEASE CONTACT: PROF. VAISHAL BANKER (+91 88665 18560)

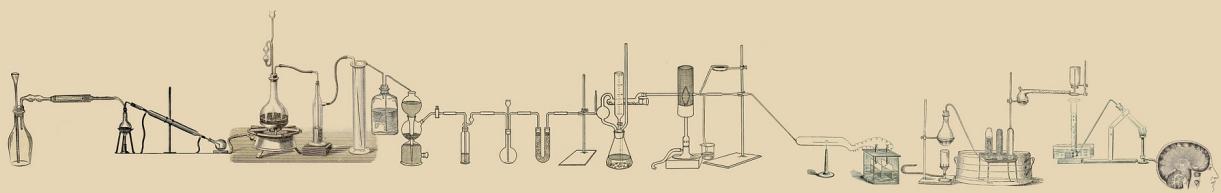
ADIT A D PATEL INSTITUTE OF TECHNOLOGY
CVM UNIVERSITY AND A D PATEL INSTITUTE OF TECHNOLOGY
PRESENTS AN EXPERT TALK ON
“SPACE TECHNOLOGY”

Mr. Ravindra Raj BM
Director & Chief Executive Officer(CEO)
Omspace Rocket & Exploration Pvt. Ltd.
Ahmedabad, Gujarat

Date : 04-02-2022
Time : 11:00 AM to 12:30 pm
Target Audience: Degree Students of EC/EE/ME/
AE/IT/CP Branch

REGISTER NOW!
<https://forms.gle/9h5c2DewhUc27>

FEEL FREE TO CONTACT
Prof. Meenal Thakkar : +91 90335 69124



Co-Curricular Activities in AY: 2021-22



Project Name: Crank and lever type tricycle



Project titled "Crank and lever type tricycle" prepared by final year Mechanical Engineering students and guided by Prof. Harsh Joshi for handicapped people received first prize for its innovativeness and usefulness to the society at the project fair 2021 organized by the Mechanical Engineering Department, ADIT.

Project Name: Folding Electric Scooter



Project titled "Folding Electric Scooter" prepared by final year students, guided by Prof. Bhaumik Sheth and Prof. Nirav Parmar. It received 2nd prize for its compact design and emission free operation at the project fair 2021 organized by the Mechanical Engineering Department, ADIT.

Participation Certificate at Maker's Fest: Baroda

PG student of ADIT persuing Masters in Thermal Engineering) Student Mr. Ronak Patel participated in Pre- Vibrant Virtual Startup Show-case from 5th Jan to 12th Jan '22



Rs 2 lakhs Grant Received



SSIP cell, Government of Gujarat has arranged "Azadi ka Amrit Mahotsav" program on 24.9.2021, 200 PM to 06.00 PM at KCG Auditorium, KCG Campus, Ahmedabad. Dr. Vishal Singh, Principal ADIT, Dr. Viranchi Pandya, Coordinator ADIT-SSIP along with two Mechanical Engineering Department students Mr. Ronak Patel and Mr. Roque Sando and received the grant of Rs. 2 lakhs by Hon. Education Minister, GoG.

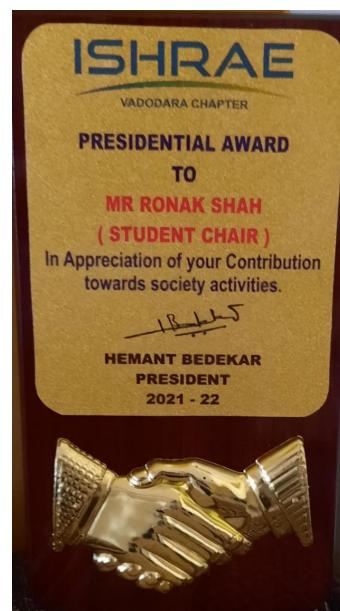
Silver Award in Technology at Maker's Fest: Baroda



UG Student Mr. Roque Sando participated in Pre- Vibrant Virtual Startup Show-case from 5th Jan to 12th Jan '22



ISHRAE Award Received by Dr. Ronak Shah in AY: 2021-22



Beyond Academics Skill Development Programs

| Type of Event | Date | Title | Speaker | Faculty Coordinator |
|--------------------|------------|---------------------------------------|--|---|
| Expert Talk | 16-10-2021 | Being Entrepreneur | Mr. Ishar Ahmad K Pathan | Dr. Y D Patel and Prof. V J Bunker |
| Event Organization | 20-10-2021 | Joy of Giving | -- | Prof. Manisha V Makwana and Prof. Gopi Bhatt |
| Expert Talk | 26-11-2021 | Journey from start up to Entrepreneur | Mr. Morach Shah (manager Indian Food Consultant) | Dr. Y D Patel Dr. V C Pandya Prof. V J Bunker |



Extra-Curricular Activities in AY: 2021-22



National Service Scheme (NSS) ADIT, CVMU

Activities conducted under NSS ADIT, CVMU.





National Level Student Participation



Team ADIT is going to participate in "DD ROBOCON INDIA 2022" Competition under Center of Excellence in Robotics, Autonomous and Intelligent Systems. Interested Faculty members and students may fill the registration form and contact following faculty coordinators on or before 15/12/2021.

| Sr. No. | Branch of Student | Faculty Coordinator |
|---------|-------------------|----------------------|
| 1 | ME & Civil | Prof. Ruchir Desai |
| 2 | ME & FT | Prof. Sankalp Bhatia |
| 3 | ME & EC | Prof. Bhumi Sheth |
| 4 | EE | Prof. Dheval Tailor |
| 5 | AE | Prof. Nikunj Yagnik |
| 6 | IT & CSD | Prof. Jitish Patel |
| 7 | CE & AIDS | Prof. Priyanka Puvar |



FOR ANY QUERY CONTACT: Dr. Y. D. Patel - 9428799545 (head.me@adit.ac.in)
Prof. R. J. Desai - 8866239112 (me.ruchir@adit.ac.in)



Project Name: Smart Irrigation in the AY: 2021-22

Internet of Things (IoT) is an emerging technology, which can play a crucial role in the domain of Agriculture. This whole system is micro controller based and can be operated from a remote location through wireless transmission so there is no need to be concern about irrigation timing as per crop or soil condition. Historic ET controllers use a pre-programmed water use curve, based on historic water use in different regions. The curve can be adjusted for temperature and solar radiation.

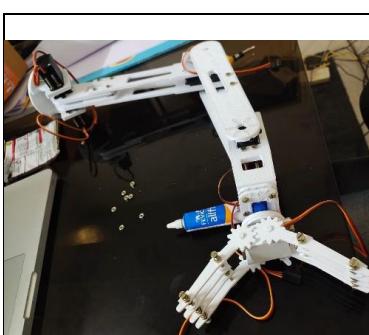
On-site weather measurement controllers use weather data collected on-site to calculate continuous ET measurements and water accordingly.



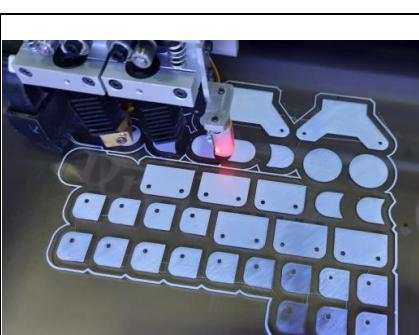
Student Projects under Modernization and Removal of Obsolescence (MODROB)

MODERNISATION AND REMOVAL OF OBSOLESCENCE (MODROB):

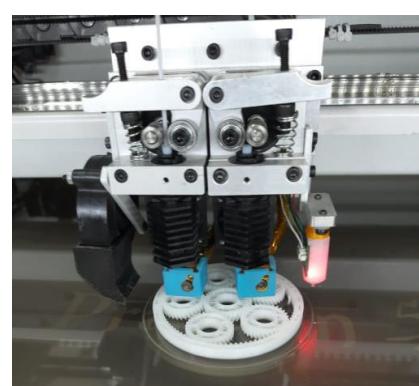
All India Council for Technical Education (AICTE) has sanctioned Rs. 12,66,667/- under MODERNISATION AND REMOVAL OF OBSOLESCENCE Rural (MODROB-Rural) Scheme to A. D. Patel Institute of technology. Mechanical Engineering department has purchased 3D Printer & 3D Scanner with the total amount of 10,74,390/- under this funding for CAM Lab through the addition of a 3D Scanner and Additive Manufacturing Facility with the following mentioned specification in CAM Lab.



Gripper Mechanism



Support structure components



Gears

Various Models developed using FDM at MODROB Laboratory



AICTE IDEA Lab

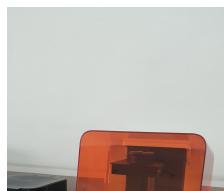


A D Patel Institute of Technology

New Vallabh Vidhyanagar, Anand

VISION:

1. To create startup and Innovation community within the town and proximity rural areas to foster the "Make in India" movement of the country.
2. To develop the ecosystem of individuals who exchange knowledge, ideas, and technology to empower people of all ages.
3. To be a reference centre focused on the development and rapid prototyping of design projects for technological transformation and innovation in "Charotar region" of Gujarat.
4. To support the learning process based on the latest trends required by the industry and the market.



The institute has eight Centre of Excellence (CoE) in emerging areas of engineering and technology. Many UG/PG students are working under these CoEs for project and dissertation work; the IDEA lab may help them to carry their work to the next level. The faculty members of the institute are actively involved in R&D activities and have received many research grants from ISRO, RESPOND, AICTE, DST etc. The institute is associated with various professional bodies like IEEE, ISTE, IE, SAE, SME, ISHRAE, AFST and IGBCC can also utilize the facilities available with IDEA Lab. The IDEA lab may support the SSIP cell, E&D cell and Innovation Council of the institute to promote the start-ups, entrepreneurship and Innovation related activities.

INTEGRATION OF IDEA LAB WITH EXISTING FACILITIES



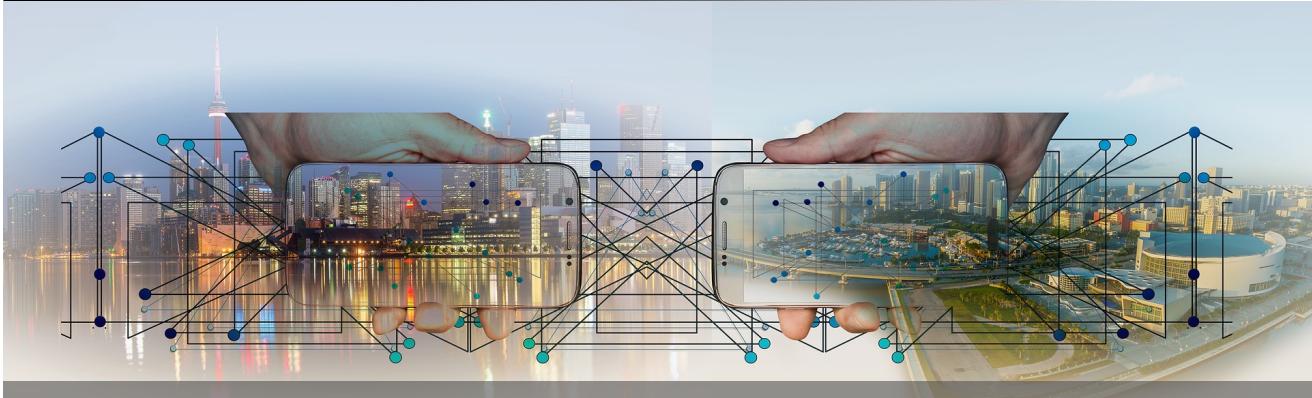
BENEFITS TO STUDENTS:

A.D. Patel Institute of technology is one of the leading engineering institutes in the state of Gujarat with NBA accreditation (4-Banches for 2nd Term) and ISO 9001-2015 certification. Since its inception, the institute provides quality education and promotes research, start-ups and innovation-related activities.

The institute runs 8-UG programs, 6-PG programs with 1800 students and 100 faculty members. The institute has a centre of excellence in emerging areas of engineering and technology like "Robotics, Autonomous and Intelligent Systems", "Electric Mobility", "Food product Development and Modelling" etc. As a part of that, students of the institute brought many laurels to the institute with active participation in many state and national level competitions.

The IDEA lab will provide a promising platform for students to enhance the required skills for converting innovative ideas into reality. The lab empowers the faculty members to accelerate the R&D activities and project-based learning in the institute. The IDEA lab will also attract and inspire the school students to think out of the box at the beginner's level.





Industrial Visits in AY: 2021-22

| Sr. No | NAME OF INDUSTRY | DATE | NO. OF STUDENTS PARTICIPATED | Name of Faculty Member |
|--------|--|--|----------------------------------|---|
| 1 | Himson Cast Pvt Ltd | 04.09.2021 (10:00 am to 12:00 noon) | 3rd Year, 15 students, | Prof. Bala Dutt & Prof. Mitul Malli |
| 2 | Himson Cast Pvt Ltd | 04.09.2021 (02:00 pm to 04:00 pm) | 3rd Year, 13 students, | Prof. Vaishal Bankar & Prof. Mitul Malli |
| 3 | Techno Design | 04.09.2021 (10:00 am to 12:00 noon) | 4th Year, 30 students, | Prof. Ruchir Desai & Prof. Mitul Malli |
| 4 | Techno Design | 04.09.2021 (02:00 pm to 04:00 pm) | 4th Year, 12 students, | Prof. Sankalp Bhatiya & Prof. Mitul Malli |
| 5 | Cipriani Harrision Valves Pvt Ltd | 24.09.2021 (02:00 pm to 04:00 pm) | 2nd Year, 29 students, | Prof. Harsh Joshi, Prof. Ruchir Desai & Prof. Mitul Malli |
| 6 | Maruti Suzuki, Kataria Auto, Anand | 24.11.2021 (10:30 am to 12:00 noon) | 1st Year, 35 Students, | Prof. Simit Prajapati & Prof. Mitul Malli |
| 7 | Tripcon Engineering Pvt Ltd, V U Nagar | 24.11.2021 (01:30 pm to 02:45 pm) | 1st Year, 35 Students, | Prof. Tejash Prajapati, Prof. Bala Dutt & Prof. Mitul Malli |
| 8 | Sukirtan Aura, Near ADIT Campus | 24.11.2021 (03:00 pm to 04:30 pm) | 1st Year, 35 Students, | Prof. Bhavin Patel, Prof. Tausif Kauswala & Prof. Mitul Malli |
| 9 | Engimech 2021, Gandhinagar | 03.12.2021 (08:30 am to 06:30 pm) | 1st Year & 2nd Year, 58 students | Prof. Mitul Malli, Prof. Sankalp Bhatiya, Prof. Manisha Makwana, Prof. Yagnesh Gambhva, Prof. Dhaval Tailor |
| 10 | Himson Cast Pvt Ltd | 11.03.2022 (10:30 am to 12:30 pm) | 2nd Year, 15 Students | Prof. Mitul Malli, Prof. Sankalp Bhatiya, Prof. Vaishal Bankar, Dr A Y Joshi |



Company: Fine Cast Pvt Ltd
Level of Student: 2nd
Visit date: 24.09.2021



Company: Fine Cast Pvt Ltd
Level of Student: 2nd
Visit date: 24.09.2021



Exhibition Name: Engimech 2021
Level of Student: 1st & 2nd
Visit date: 03.12.2021

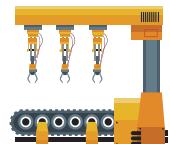


Company: Cipriani Harrison Valves Pvt Ltd
Level of Student: 2nd
Visit date: 24.09.2021



Internship Records

| Sr No. | Student Name | Name Of Company for Internship | Industry Location |
|--------|------------------------------|---|-------------------|
| 1 | Meet Intwala | ABC process solutions pvt. ltd | V.U.Nagar |
| 2 | Jay Tala | Atlantic Engee Tech | Jamnagar |
| 3 | Jaykumar Yogeshbhai Gajjar | ABC process solutions pvt. ltd | V.U.Nagar |
| 4 | Rana Rohankumar Jayantibhai | ABC process solutions pvt. ltd | V.U.Nagar |
| 5 | Prajwal Baxi | HUAHENG AUTOMATION PRIVATE LIMITED | Vadodra |
| 6 | Prince Bhanderi | Astron Brass Components | Jamnagar |
| 7 | Rahulkumar Ashokbhai Solanki | Atlanta Electricals Pvt. Ltd | V.U.Nagar |
| 8 | Joshi Dhruv vimalbhai | Atlanta Electricals Pvt. Ltd | V.U.Nagar |
| 9 | Jainit Chauhan | B.C.Instrument | V.U.Nagra |
| 10 | Chinai Dhruv A | Larsen & Toubro Heavy Engineering | Surat |
| 11 | Paresh Sargara | B.C.Instrument | V.U.Nagar |
| 12 | Paridh dave | ATS Techno Pvt Ltd | Ahmedabad |
| 13 | Parin Patel | Cipriani Harisson | V.U.Nagar |
| 14 | Rushabh Doshi | Valcon valves & Instruments | Sanand |
| 15 | Jewel Fernandes | OIZOM Instruments Pvt. Ltd. | Ahmedabad |
| 16 | Gaurav Singh | Cryo gas Equipments | Vadodra |
| 17 | Hasan Ghadiali | Suryamani | Nadiad |
| 18 | Vishal Barot | CONVMECH | V.U.Nagar |
| 19 | Tej Joshi | HUAHENG AUTOMATION PRIVATE LIMITED | Vadodra |
| 20 | Spandan K Mirani | Jyoti CNC | Rajkot |
| 21 | Patel Dhruvkumar Kirankumar | CONVMECH | V.U.Nagar |
| 22 | Madhav Mistry | Elemex electrical & electronics pvt ltd | Vadodra |
| 23 | Harshil D. Modi | I.S.Anvari | Surat |
| 24 | Nand P Patel | CONVMECH | V.U.Nagar |
| 25 | Abhiram Suresh Nair | Evosys | Ahmedabad |
| 26 | Akhil P Nair | Grasim Industries Ltd | Veraval |
| 27 | Poojan Nandani | Globle CNC Automation | Rajkot |
| 28 | Pruthvi k pachani | Amrutdhara Eng. Co. | Rajkot |
| 29 | Dhruv Pandya | Nebula Surgical Pvt. Ltd. | Rajkot |
| 30 | Dhruv Pandya | Jyoti CNC | Rajkot |
| 31 | Meet Parekh | LINDE ENGINEERING | Vadodra |
| 32 | Abhi Patel | Helix Industries | Vadodra |



| Sr. No. | Student Name | Name Of Company for Internship | Industry Location |
|---------|----------------------------------|--|-------------------|
| 33 | Patel Parth Ajitkumar | CONVMECH | V.U.Nagar |
| 34 | Khuzema Anand | Elecon Gears | V.U.Nagar |
| 35 | Patel Deep H. | Satani Forge & Turn | Rajkot |
| 36 | Nikhil Shukla | Elecon gears | V.U.Nagar |
| 37 | Kushal Vaghasiya | Elecon gears | V.U.Nagar |
| 38 | Deep Ambalal Patel | Flovel Valves Pvt Ltd | V.U.Nagar |
| 39 | Patel Manthan | Rameshwar Industry | Mumbai |
| 40 | Rathod Anirudhsinh | Flovel Valves Pvt Ltd | V.U.Nagar |
| 41 | Harsh Bhavinkumar Patel | Flovel Valves Pvt Ltd | V.U.Nagar |
| 42 | Changela Vivek | Glas coat | V.U.Nagar |
| 43 | Moeen Saiyed | Glas coat | V.U.Nagar |
| 44 | Urvil M Patel | Helix Industries | Vadodra |
| 45 | Meet Pipaliya | Satani Forge & Turn | Rajkot |
| 46 | Harsh Prajapati | DUKE PLASTO TECHNIQUE PRIVATE LIMITED. | Palanpur |
| 47 | Manthan Sapra | Glas Coat | V.U.Nagar |
| 48 | Jeenkumar Ratilal Rohit | MMG Inovation | Ahmedabad |
| 49 | Patel Jay Yagneshkumar | Glas Coat | V.U.Nagar |
| 50 | Harsh M Shah | Avadh Industries | Vadodra |
| 51 | Neel Sachinkumar Dave | GMM Pfaudler Ltd | V.U.Nagra |
| 52 | Varun Bakulesh Bhatt | Govardhannathji Energies LLP | Anand |
| 53 | Patel Kenil | Indtech Engineers | V.U.Nagar |
| 54 | Abhishek Soni | Suryamani | Nadiad |
| 55 | Bhautik Sorathiya | Esteem Auto Pvt Ltd | Rajkot |
| 56 | Darshini V Modi | KALPTARU ENGIVATION | V.U.Nagar |
| 57 | Jay Thakkar | Larsen & Toubro Limited - Heavy Engineering IC | Surat |
| 58 | Vrugisha Thakkar | Larsen & Toubro Limited - Heavy Engineering IC | Surat |
| 59 | Tilva Manav Rajeshbhai | Esteem Auto Pvt Ltd | Rajkot |
| 60 | Hiten Rathod | Milcent Appliances Pvt Ltd | V.U.Nagar |
| 61 | Yash Vataliya | Satani Forge & Turn | Rajkot |
| 62 | Vavdiya Akash Rameshbhai | I.S.Anvari | Surat |
| 63 | Darshak Dobariya | Milcent Appliances Pvt Ltd | V.U.Nagar |
| 64 | Ravi Zankat | Transpek-Silox | Vadodra |
| 65 | Mandliwala Husen Sabirbhai | Milcent Appliances Pvt Ltd | V.U.Nagar |
| 66 | Parmar Kalpesh Kumar Narsinhbhai | Milcent Appliances Pvt Ltd | V.U.Nagar |
| 67 | Labh M Desai | Nirma Chemical Complex Ltd. | Bhavnagar |
| 68 | Jaykumar T Patel | Pump Square | V.U.Nagar |
| 69 | Kevalkumar Bharatkumar Tandel | Pump Square | V.U.Nagar |
| 70 | Yadav Ashish Baijnath | Pump Square | V.U.Nagar |
| 71 | Gajjar Devang Ashok | RHINO Machine Pvt. Ltd. | V.U.Nagar |
| 72 | Alpesh Parmar | RHINO Machine Pvt. Ltd. | V.U.Nagar |
| 73 | Chauhan Ashish Prakash | RHINO Machine Pvt. Ltd. | V.U.Nagar |
| 74 | Patel Achal Snehal | Rotomotive Powerdrives India Ltd | V.U.nagar |
| 75 | Faijal Farukhbhai Vahora | Rotomotive Powerdrives India Ltd | V.U.Nagar |
| 76 | Kachhiya Patel Yash Jayendrabhai | Rotomotive Powerdrives India Ltd | V.U.nagar |
| 77 | Harshil Navinchandra Patel | HUAHENG AUTOMATION PRIVATE LIMITED | Vadodra |
| 78 | Mayan Patel | Telematrix Consultants Pvt Ltd | V.U.Nagar |
| 79 | Patel Parth Niles | kabra extrusion technik ltd | Daman |
| 80 | Shreyansh | Telematrix Consultants Pvt Ltd | V.U.Nagar |
| 81 | Nirav N Solanki | Apollo Tyre Ltd. | Vadodra |
| 82 | Velani Akshat B. | Perfection Engineering Company | Vadodra |
| 83 | Krunal Champaneri | Jyoti CNC | Rajkot |
| 84 | Roque Sando Vilanculo | Telematrix Consultants Pvt Ltd | V.U.Nagar |
| 85 | Haji Akram Hothi | Welspun Corp Limited | Kutch |
| 86 | Akshay Mishra | Tripcon Engineering Pvt Ltd | V.U.Nagar |
| 87 | Pratik Modi | Tripcon Engineering Pvt Ltd | V.U.Nagar |
| 88 | Mir Azaz | Welspun Corp Limited | Kutch |
| 89 | Parmar Manish | Suryamani | Nadiad |
| 90 | Ka Patel Bhaumik Rajendrakumar | Vidya wires pvt ltd | V.U.Nagar |
| 91 | Makwana Rachitkumar Ramanbhai | Vidya wires pvt ltd | V.U.Nagar |
| 92 | Dadhichee Oza | Vidya wires pvt ltd | V.U.Nagar |
| 93 | Thakral Malay Jagdishbhai | Dharti Cotspin pvt ltd | Rajkot |
| 94 | Janav Patel | Vulcan Engineering Co. | V.U.Nagra |

94 students got an internship from Mechanical Engineering Department in AY: 2021-22.



Our Placement Records (AY: 2021-22)



**Anandwala
Khuzema Shabbir**



**Shukla Nikhil
Shashibhushan**



Vivek Changala



Abhiram Nair



Mahavir Singh



**Pratik Kumar
Makwana**



**Dhananjay
Bhalodia**



Kalpesh Singh



Many other students got placed in such reputed companies.



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We are proud to announce

ADIT received 7th Rank in entire state of Gujarat with 4 out of 5 stars

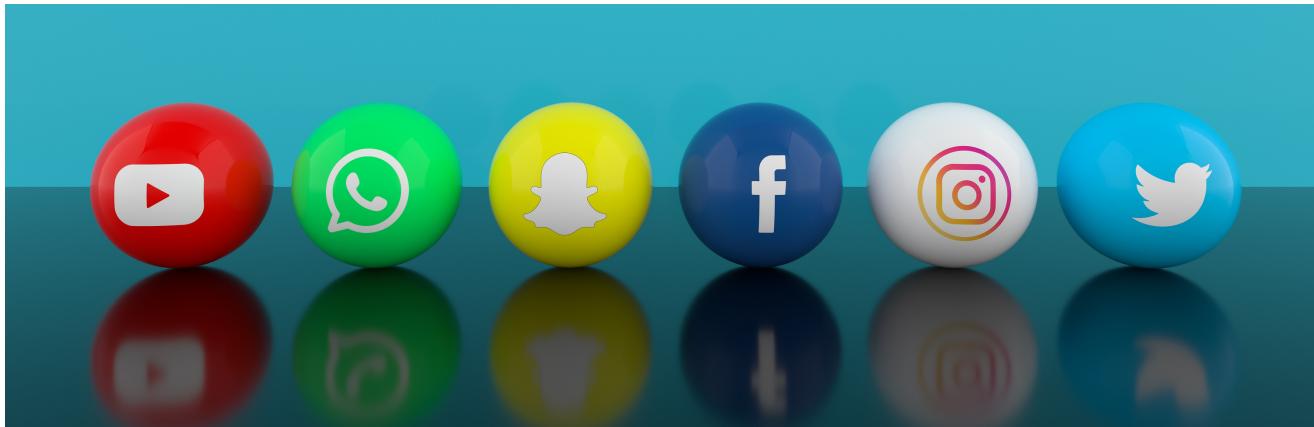
Gujarat State Institutional Rating Framework

ADIT received 7th Rank with 4 out of 5 star rating by Gujarat State Institutional Rating Framework, Government of Gujarat.



College Facts

- College Timings : Mon - Sat 09:00 AM to 04:30 PM
- "Congratulations to Badminton Team ADIT (MEN), Winner in Winter Sports Festival, Inter Collegiate Badminton Tournament 2021-22, CVM University" Dhruv Joshi, Krutarth Joshi, Omkarish Raol, Vr Patel, Jeet Dorivala, Vishw Patel Dr. Kiran Patel (Head Coach), Prof. Yagnesh Gambhava (Faculty Sports I/C)
- "Congratulations to Badminton Team ADIT (Women), Runner up in Winter Sports Festival, Inter Collegiate Badminton Tournament 2021-22, CVM University" Khushi Shah, Shreya Patel, Vaishali Upadhyay, Aanchi Patel Dr. Kiran Patel (Head Coach), Prof. Yagnesh Gambhava (Faculty Sports I/C)
- ADIT is the one of the two institutes of Gujarat to receive grant of about Rs 1.10 crore for AICTE IDEA Lab.
- ADIT started three new PG branches:
 - (1) M.Tech. Renewable Energy
 - (2) M.Tech. Artificial Intelligence



Admission Enquiry:

1. Prof. Tejas Prajapati

Email: me.tejas@adit.ac.in

Contact: 8866820375

2. Prof. Sanjeev Rajput

Email: sanjivrjpt@gmail.com

Contact: 9558214818

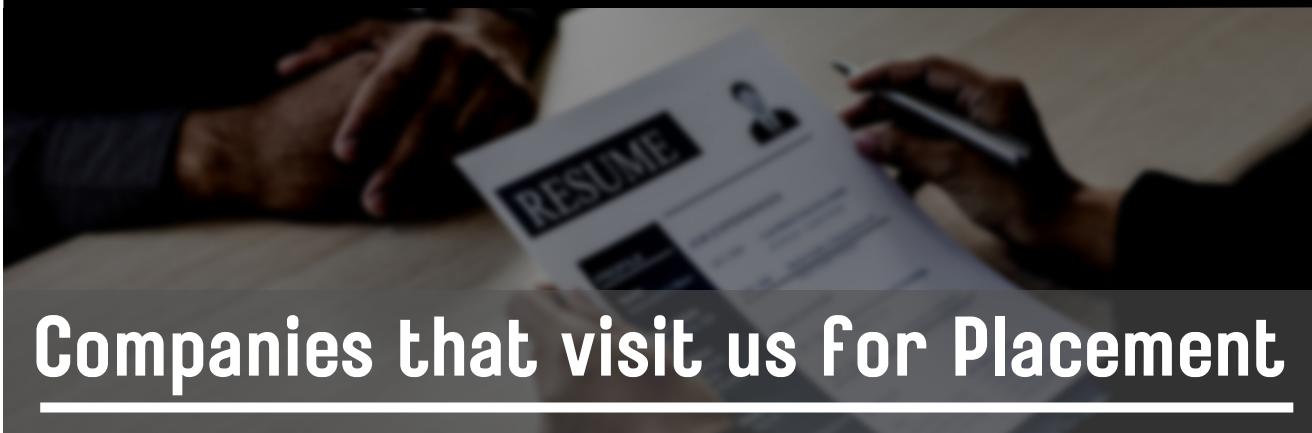
Placement Enquiry:

Prof. Bala J. Dutt

Email Id: me.baladutt@adit.ac.in

or placements.me@adit.ac.in

Contact: 80000 40562



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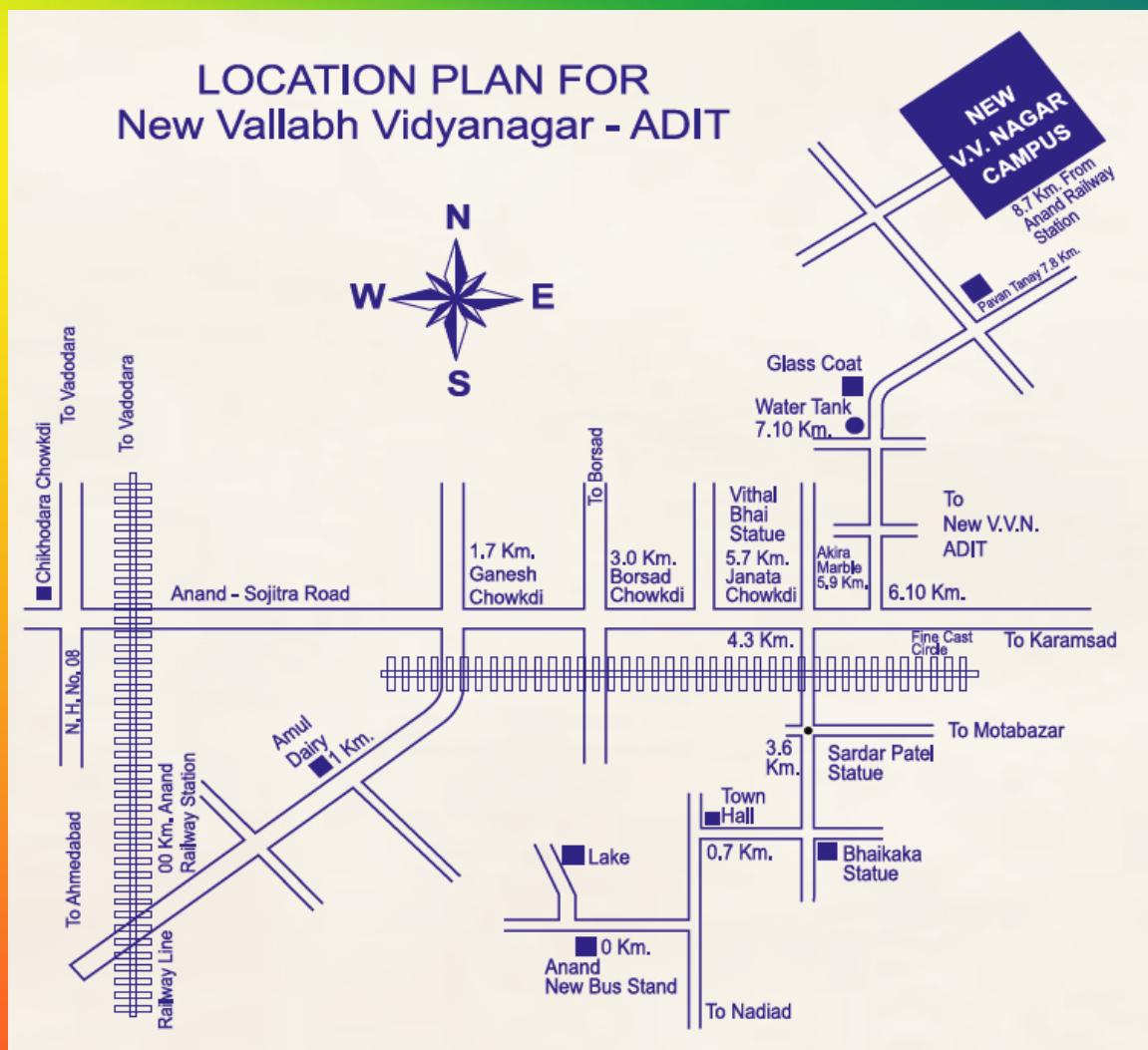


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