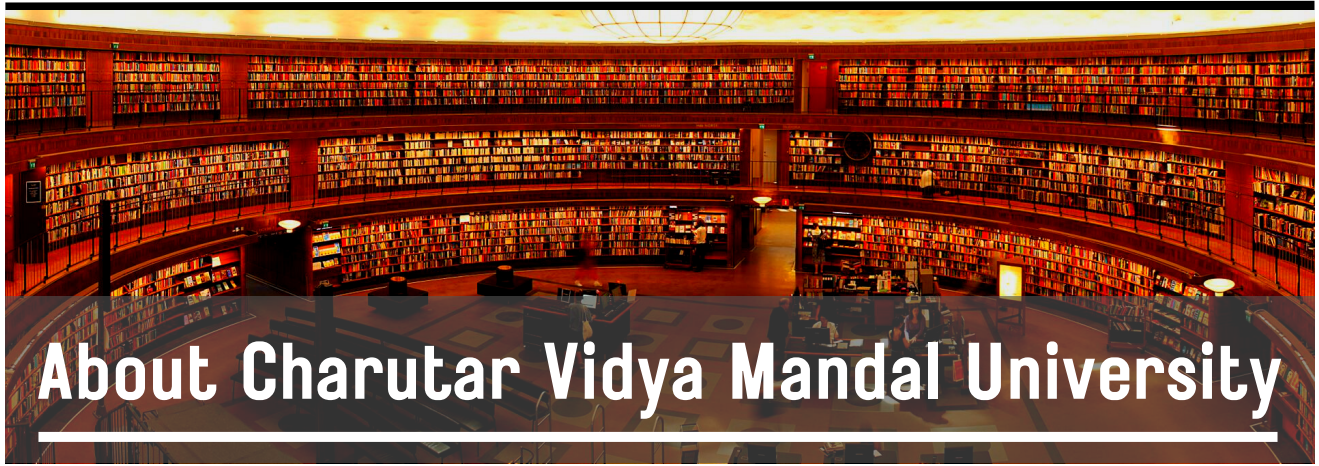


YANTRIK 6.0

Edition: April 2022





About Charutar Vidya Mandal University

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.



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 laurels 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

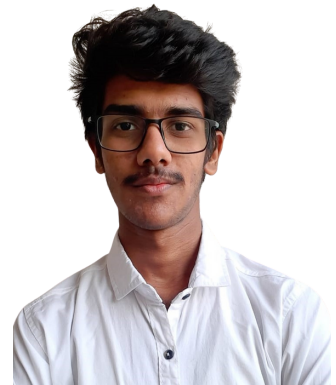
I feel great pleasure and happiness to announce the onset of the 6th edition of the Mechanical Engineering Department Newsletter "YANTRIK." The department highly prioritises holistic student grooming by providing them with a spectrum of opportunities in academic as well as non-academic activities. My 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.



Prof. Mehul Patel
Assistant Professor

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.



Bhavya Rambhia
T&P Coordinator

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.



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



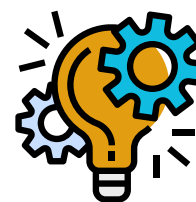
Maharshi Thakkar
Assistant professor



Vaishal Banker
Assistant professor







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. Krupal 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

<p>Memorandum of Association between ADIT and Pumpsquare Systems LLP for consultancy work.</p> <p>This Agreement is made on 25th January, 2021 between A.D. Patel Institute of Technology, Vithal Udyognagar, New Vallabh Vidyanagar-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.</p> <p>Objective</p> <p>The MoA is aimed at offering professional engineering consultancy services/Research jointly between ADIT and Pumpsquare Systems LLP in the following fields:</p> <ol style="list-style-type: none"> 1. Use of software available at ADIT for research work. 2. Development of Turbo Machinery lab. <p>Pumpsquare Systems LLP obligations</p> <ul style="list-style-type: none"> • 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. <p>ADIT's obligations</p> <ul style="list-style-type: none"> • 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/highlight technical issue if any to Pumpsquare Systems LLP. • All consultancy/Research work will remain CONFIDENTIAL Pumpsquare Systems LLP & ADIT. <p>Other points</p> <ul style="list-style-type: none"> • 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. <p>For Pumpsquare Systems LLP C.H. Turakhia Partner</p>	<p>Duration</p> <p>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 reviewed 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.</p> <p>Signed and executed 25th January, 2021 by the A.D. Patel Institute of Technology, New Vallabh Vidyanagar and pump square systems llp for a period of 3 Years with the seals of both the parties affixed here below.</p> <p>For Pumpsquare Systems LLP C.H. Turakhia Partner</p> <p>Mr. Chintan Turakhia Partner Pumpsquare Systems LLP Plot. No. 1903, Phase IV, G.I.D.C Estate, Via Anand, Vithal Udyog Nagar - 388121</p> <p>Signed in the presence of  (Signature of Witness)</p> <p>Signed in the presence of  (Signature of Witness)</p> <p>Seal of the Institute </p> <p>Seal of the Company </p>
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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



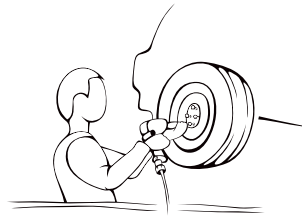
A Step Towards Academic Excellence

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

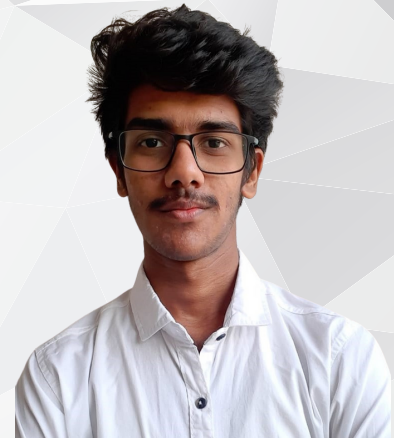


Name: Dhiraj Sharma

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



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) AcademyFDP 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. Bhuva, 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 PATIL INSTITUTE OF TECHNOLOGY
(A CONSTITUENT COLLEGE OF 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/MbN1KJCH93Q88>

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



ADIT PATIL INSTITUTE OF TECHNOLOGY
(A CONSTITUENT COLLEGE OF CVM UNIVERSITY)

SCIENCE CLUB/INNOVATION CELL
PRESENTS
A WEBINAR ON

IGNITE YOUR IDEAS

Dr. Vijay Soni
Founder, Scipreneur and Fellow
Instructor of Microbiology in Department of Medicine
Well 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/93gRtLH4G8888888>

FEEL FREE TO CONTACT
Abhay Dasadia: +91 9426017285




ADIT PATIL INSTITUTE OF TECHNOLOGY
(A CONSTITUENT COLLEGE OF CVM UNIVERSITY)

CVM University Innovation and Startup Centre (CVMUSC)

and
With Blessings from
Er. Shree Bhikubhai Patel,
President, CVM University
PRESENTS AN EXPERT TALK ON

Being Entrepreneur

Organised by
ADIT PATIL 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/3dH4W>

CONVENER: DR. VISHAL SINGH
PRINCIPAL, ADIT

CLUSTER COORDINATOR, ESII CELL: DR. Y. D. PATEL
HEAD, MECHANICAL ENGINEERING

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



ADIT PATIL INSTITUTE OF TECHNOLOGY
(A CONSTITUENT COLLEGE OF CVM UNIVERSITY)

RESEARCH AND DEVELOPMENT CELL
CVM UNIVERSITY AND A D PATIL INSTITUTE OF TECHNOLOGY
PRESENTS
AN EXPERT TALK ON

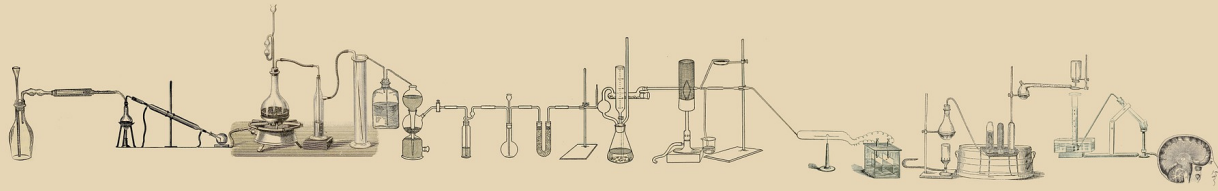
"SPACE TECHNOLOGY"

Mr. Ravindra Raj BM
Director & Chief Executive Officer (CEO)
Onspace 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/
ADIT/ICP Branch

REGISTER NOW!
<https://forms.gle/93gRtLH4G8888888>

FEEL FREE TO CONTACT
Prof. Mehul 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.

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.

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.

Silver Award in Technology at Maker's Fest: Baroda



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



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. Isharahmad K Pathan	Dr. Y D Patel and Prof. V J Banker
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 Banker



Extra-Curricular Activities in AY: 2021-22



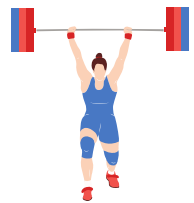
Vishal Kanojia
Archery - AIU



Parth Shah
Archery - AIU



Akshat Velani (AIU)
Silver Medal)



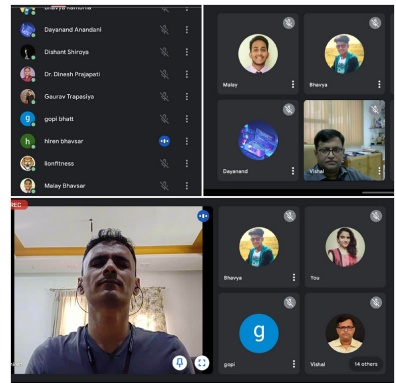
Dhyey Patel
Football - AIU



Football Team
All India University Level

National Service Scheme (NSS) ADIT, CVMU

Activities conducted under NSS ADIT, CVMU.





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.

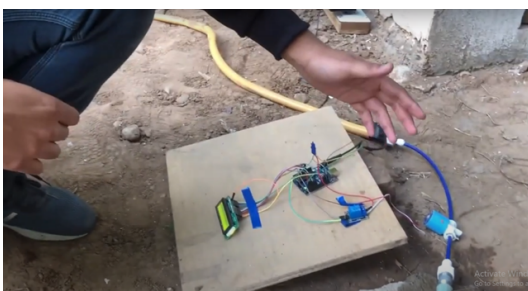
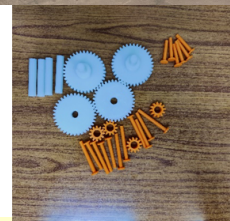
Sl. No.	Branch of Student	Faculty Coordinator
1	ME & Civil	Prof. Ruchir Desai
2	ME & FT	Prof. Sankaal Bhatia
3	ME & EC	Prof. Bhaumik Sheth
4	EE	Prof. Dhaval Tailor
5	AE	Prof. Nikunj Yagnik
6	IT & CSD	Prof. Jitkisha Patel
7	CE & AIDS	Prof. Privanka Puvar



FOR MORE DETAILS VISIT :
www.ddrobocon.in
REGISTRATION FORM :
<http://bit.ly/3EqlOk5>



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

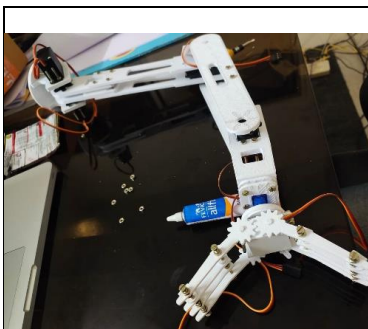
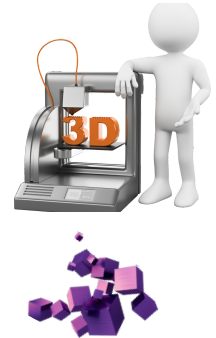
Internet of Things (IoT) is an emerging technology, which can play a crucial role in the domain of Agriculture. This whole system is micro controller based and can be operated from a remote location through wireless transmission so there is no need to be concern about irrigation timing as per crop or 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.

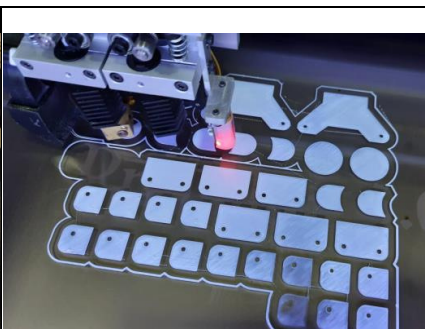
Student Projects under Modernization and Removal of Obsolescence (MODROB)

MODERNISATION AND REMOVAL OF OBSOLESCENCE (MODROB):

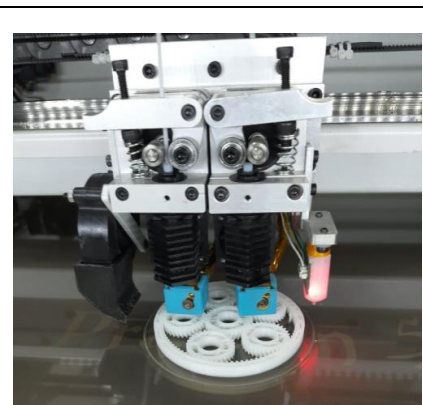
All India Council for Technical Education (AICTE) has sanctioned Rs. 12,66.667/- under MODERNISATION AND REMOVAL OF OBSOLESCENCE Rural (MODROB-Rural) Scheme to A. D. Patel Institute of technology. Mechanical Engineering department has purchased 3D Printer & 3D Scanner with the total amount of 10,74,390/- 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



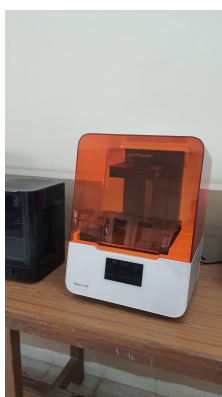
AICTE IDEA Lab



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.



INTEGRATION OF IDEA LAB WITH EXISTING FACILITIES

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 IGBC 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.

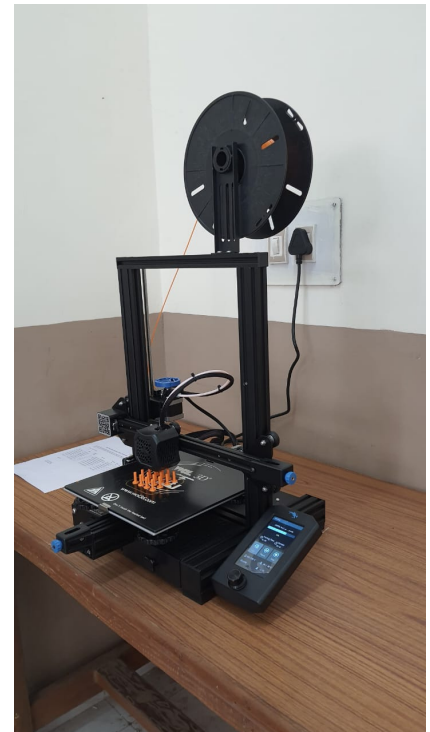


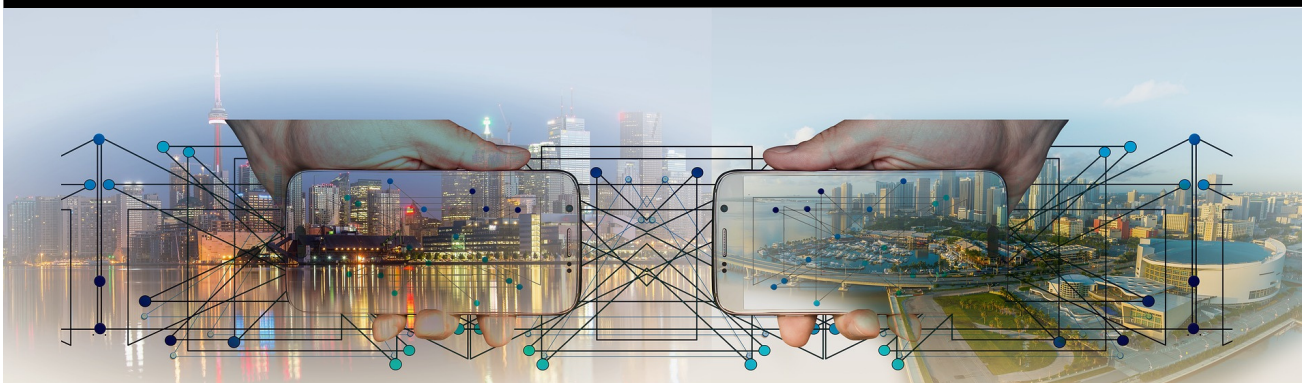
BENEFITS TO STUDENTS:

A.D. Patel Institute of technology is one of the leading engineering institutes in the state of Gujarat with NBA accreditation (4-Branches 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, 30students,	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 Harrison 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. Taushif 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



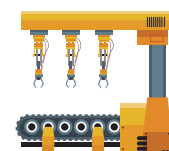
Company: Fine Cast Pvt Ltd
Level of Student: 2nd
Visit date: 24.09.2021



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



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 Bhandari	Astron Brass Components	Jamnagar
7	Rahul Kumar 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.Ansari	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.Ansari	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 Farukbhai 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 Nilesh	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 Ptel 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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- IIRS/ISRO



GUJARAT STATE INSTITUTIONAL RATING FRAMEWORK (GSIRF)
Government of Gujarat



We are proud to announce

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

7th Rank
3.2 CGPA

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, Omkarsinh Rao, V. Patel, Jeet Donwala, Vishw Patel & 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, Shweta Yadav, Sonam Upadhyay, Aanshi 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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Reliance
Industries Limited



