

# A. D. Patel Institute Of Technology

NBA ACCREDITED (2019-22)



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## MECHANICAL ENGINEERING NEWSLETTER

Issue: March 2020

### Overview...



Faculty Zone



Industry Exposure



Student Achievements



Placements

# CHAIRMAN'S MESSAGE

A D Patel Institute of Technology is a prestigious and well established Engineering Institute started in year 2000. It is situated in lush green campus of New Vallabh Vidhyanagar, Anand. It is equipped with state-of-art laboratories, Auditorium, Sports Complex, Cricket ground and good faculty members with the aim to produce graduate engineers with holistic development. The residential nature of the college campus has a vibrant commmunity of faculty members, boys and girls in hostels.



The ADIT campus offers an all round development oppurtunities, training and skill development for future engineers with global quality infrastructure and vision. ADIT is situated next to industrial township of Vithal Udyognagar which offers a unique opportunity of frequent Industry Institute Interaction for students/faculty members facilitating training and projects. The college supports its students with opportunities of placement in renowned Indian/MNC companies.

I bless the students and faculty members of ADIT for doing excellent work and reaching to great heights in their professional careers.

**ER. BIKHUBHAI PATEL**



# PRINCIPAL'S MESSAGE

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



The members of ADIT Mechanical Engineering fraternity are contributing to various national and multinational companies in Infrastructure, manufacturing and energy sector 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 about the achievements of faculty and students of the Mechanical Engineering department.

**DR. VISHAL N. SINGH**

# HOD'S MESSAGE

I have great pleasure and pride to announce that the Department of Mechanical Engineering, A D Patel Institute of Technology (ADIT) – Karamsad is publishing its third news letter in March, 2020.

This newsletter will help to share the event, news, 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 resounding success.

**DR. MITESH I. SHAH**



# EDITOR'S DESK

I am proud to publish this third edition of mechanical engineering department's newsletter. I have tried to encapsulate the never ending pursuit by my fellow classmates and juniors alike to push forward the envelope of excellence in everything they find worthwhile. To that end, I have tried to best of my ability to incorporate majority of achievements in this academic year.



**PANCHAM PATEL**

**Editor in Chief - DR. MITESH I. SHAH**

**Editor - MR. MEHUL B. PATEL; MR. PANCHAM PATEL**

# ADIT NEWS

Project guided by Dr. M. I. Shah and Prof. Maharshi Thakkar, **DEVELOPMENT OF BUBBLING FLUIDIZED BED GASIFICATION SYSTEM FOR AGRICUTURAL WASTE** is selected for national convention under AICTE Chattra Vishwakarma Award to be held at AICTE head quarter New Delhi.



ADIT was awarded **BEST NSS UNIT BY GTU** for 2018-19 led by **BEST PROGRAM OFFICER Ms. Manisha Makwana**

Dr. Vishal N Singh delivered an expert talk on **ANSYS FOR COOLING SYSTEM** on 24th April 2019, Workshop organized by Parul university and L&T Power

Mr. Sankalp G. Soni received **LEAN SIX SIGMA BLACK BELT CERTIFICATION**, Sept 2019

Mr. Ayanesh Y. Joshi published a book chapter on **A REVIEW ON MACHINABILITY ASPECTS OF TI 6AL 4V A TITANIUM GRADE 5 ALLOY** in INTECHOPEN.

Dr. N. K. Chavda published a book on **EXERGY ANALYSIS OF DOUBLE PIPE HEAT EXCHANGER**, Lap Lambert Academic Publishing

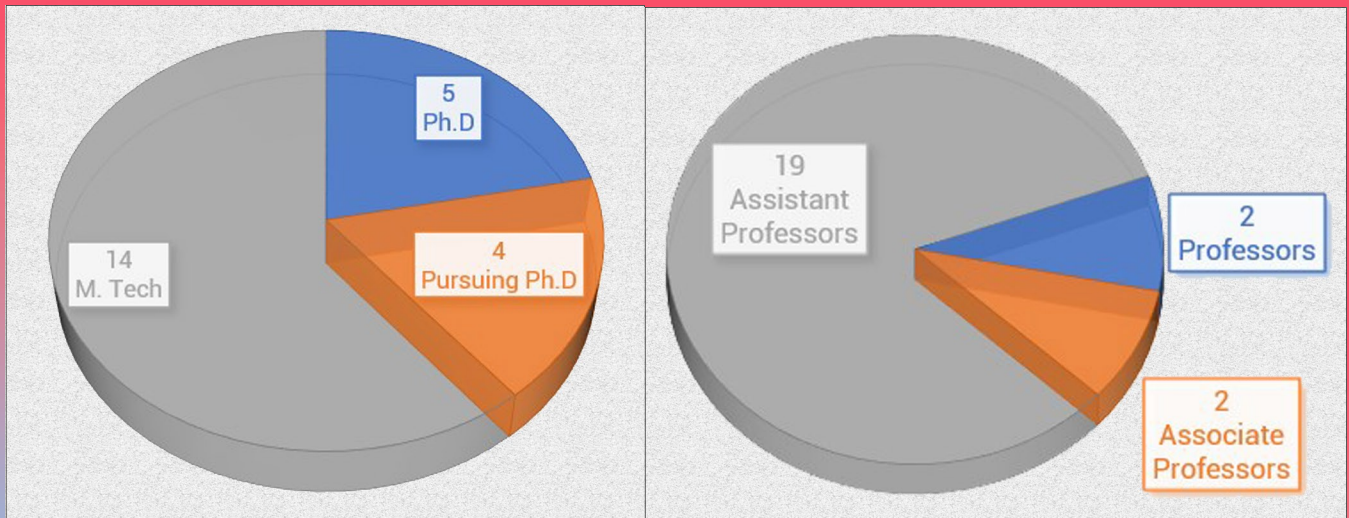
Dr. N. K. Chavda Published a book on **ELEMENTS OF MECHANICAL ENGINEERING**, Lap Lambert Academic Publishing

Mr. Vaishal J. Banker published a Book Chapter - **EXPERIMENTAL INVESTIGATION OF CUTTING PARAMETERS ON SURFACE ROUGHNESS IN HARD TURNING OF AISI 4340 ALLOY STEEL** in Advances in Intelligent systems and computing, Volume 949, proceedings of AEOTIT 2018 (Published on 2019)



# FACULTY ZONE

THE DEPARTMENT HAS 23 FACULTIES -



Did you Know  
with 5 Doctorates  
our Department has  
highest average  
faculty Qualification.

In Picture

- 1 Dr. Vishal N. Singh
- 3 Dr. Y.D. Patel
- 5 Mr. Kalpesh N. Shah
- 7 Dr. Ronak R. Shah
- 9 Mr. Mehul B. Patel
- 11 Mr. Vaishal Banker

- 2 Dr. Mitesh I. Shah
- 4 Dr. R.B. Chokshi
- 6 Dr. N.k. Chavda
- 8 Mr. Bala J. Dutt
- 10 Mr.. H.B. Joshi
- 12 Mr. Manoj Kumar

# INDUSTRY EXPOSURE

ADIT organised 19 **INDUSTRIAL VISITS** this academic year (2019-20) with 3 more planned, which included - CIPRIANI HARRISON Valves, Phoenix Frozen Foods, Accurate Cutting Technology, Lal Guru Engineering, Metal Heat Treaters, Akshar Conveyors, Tripcon Engineering, Fine Cast India, Sardar Sarovar Dam, Thermal Power Station Wanakbori, Swiss Glascoat among others.

A total of 82 students have taken **INTERNSHIP/TRAINING** in 40 different Industries

Students and Faculty alike also had the opportunity to attend numerous **WORKSHOPS**, some of which were -

**ENERGY CONSERVATION AWARENESS** by Chirag V. Chauhan on 14th December 2019 to celebrate National Energy Conservation Day.

**RENEWABLE ENERGY WORKSHOP** by Dr. Mitesh Shah, Dr N K Chavda, and Mr. Maharshi Thakkar on 1st February 2020.

**ADOBE PHOTOSHOP AND ILLUSTRATOR DESIGNING WORKSHOP** by IAS Society of IEEE on 4th September 2019.

**RESUME BUILDING, GROUP DISCUSSION AND PERSONAL INTERVIEW WORKSHOP** on 15th July 2019

**LEADERSHIP FLY WORKSHOP** by Dr. Viraj Vora on 9th to 11th January 2020





# EXPERT TALKS

Along with Workshops and Visits **EXPERT TALKS** were also conducted, some of which are outlined below

**RECENT TRENDS IN ELECTRIC MOBILITY** by Mr. C. Pradeep, Chairperson at SAEISS and GM at Force Motors, Pune on 15th September 2019 (Talk)

**3-D PRINTING BY EXPERTS FROM USA** on 4th October 2019 which helped initiate students with additive manufacturing of several different types of products and materials and the future of manufacturing.

**VEHICLE DYNAMICS INDUSTRIAL APPLICATION** by Mr. Subramaniam from CEAT Tyres was held on 20th September 2019, wherein an informative session exhibiting how different aspects of student's curriculum is actually used in Industries.

**INTRODUCTION TO ANN AND ITS APPLICATION IN AUTOMOBILE ENGINEERING** by Dr. Neeraj Chavda on 5th February 2019 for ISTE

**IMPORTANCE OF MEASURING INSTRUMENTS IN INDUSTRIES** by Mr. Ayanesh Joshi on 4th April 2019

**RECENT TRENDS IN COMPUTER AIDED MANUFACTURING** by Mr. Krunal Shah on 1st March 2019 at GEC, Dahod

**COMPUTATIONAL FLUID DYNAMICS IN HEAT TRANSFER** by Dr. Mitesh Shah on 8th February 2019 at BVM, V.V. Nagar

**ENTREPRENEURSHIP UNDER SSIP CELL** by Ms. Manisha Makwana

**CASE STUDIES IN HEAT TRANSFER** by Dr. Neeraj Chavda on 9th March 2019 at BVM, V.V. Nagar

**MOTIVATIONAL LECTURE FOR PLACEMENTS** was Conducted by Mr. Minesh Amin on several occasions

# STUDENT ACHIEVEMENTS

3rd Year Mechanical Engineering Department Project Team (Ved Patel, Arpit Prajapati, Vedant Sarvaiya and Parth Patel) with mentors Dr. M. I. Shah and Prof. Maharshi Thakkar Presented their Project **DEVELOPMENT OF THE BUBBLING FLUIDIZED BED GASIFICATION SYSTEM FOR AGRICULTURAL WASTE** at the Regional states convention held at Oriental College, Bhopal under AICTE **CHHATRA VISHWAKARMA AWARDS** on 20th December, 2019 and were selected for the National Convention to be held at AICTE, New Delhi on 24th February 2020.



Paudel Bashu Represented his **NCC DIRECTORATE AT THE ANNUAL REPUBLIC DAY CAMP AND THE PRIME MINISTER'S RALLY** and was **AWARDED MEDAL OF EXCELLENCY** at New Delhi from 1st January to 29th January 2019.





# STUDENT ACHIEVEMENTS

Purvang Patel, Vishwas Patel, Naigam Bhatt and Brijesh Gajjar, recieved **SILVER AWARD AT MAKERS FEST VADODARA** held at M.S. University in January 2020.



Jewel Fernandes achieved 2nd place in **GTU ZONAL ART COMPETITION**



**Installation Ceremony of ISHRAE ADIT Student Chapter 2019-20**

# STUDENT ACHIEVEMENTS

Lay Naik Displayed excellent sportsmanship by getting selected for **NATIONAL CADET CORPS - OFFICERS TRAINING ACADEMY** in Kamptee, Maharashtra for Services Selection Board training camp where only 88 Cadets are selected from all over India. He also represented GTU at **NATIONAL ROLLER SKATING EVENT**. Along the way he picked up **2ND PLACE IN SWIMMING AND HANDBALL** in GTU and a **3RD PLACE IN YOGA** at the same event.



Pancham Patel was **AWARDED BEST STUDENT AMBASSADOR** for providing constant support to the team every year to National Level Tech-Fest TechKshetra 2020 held in M.S. University, Vadodara on 14-16th February 2020



# PLACEMENTS

This year from March 2019 to February 2020, **48 STUDENTS** have been placed in Various Companies such as Byju's, Western Shipping, TechnoLED, SPRERI etc.



# MECHANICAL



# ENGINEERING



# BATCH 2020