

Bi-Annual E-Magazine
Department of Mechanical Engineering



YANTRAM



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Azadi Ka Amrit Mahotsav

Har Ghar Tiranga - 13th - 15th August 2022



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Department

Vision:

To play an active role in producing globally competent mechanical engineers to make technologically proficient, innovative, enthusiastic, future leaders and responsible citizen possessing human values to contribute significantly towards meeting global challenges.

Mission:

- 1) To provide sound basic knowledge of basic principles of engineering by imparting theoretical and practical understanding of various aspects of Mechanical Engineering.
- 2) To explore Institute–Industry linkage for fostering professional skill of students enabling them to become industry ready
- 3) To bring in good governance, transparent evaluation system and professional standards for ethical and human values in students.
- 4) To design and organise training programme to offer wide choice to industry and academia for their skills enhancement.
- 5) To promote faculty and staff members to become resourceful, innovative and through various development programmes.
- 6) To serve society through innovation and excellence.

YANTRAM

Vision:

To be a preeminent Instrument that depicts technical and non-technical matters among the department.

Mission:

To be the great resource for the quality reporting and analysis of departmental stuffs.

Message from Provost...

Dear Readers,

The Department of Mechanical Engineering is one of the important and well equipped Departments in SRICT. It has expertise in various specializations, such as CAD, CAM, and Thermal. It also runs a PG course in Thermal Engineering. Faculty members of the department are also involved in Energy Audit activity. Now, the department is going for its first NBA audit in the next month. Best wishes!

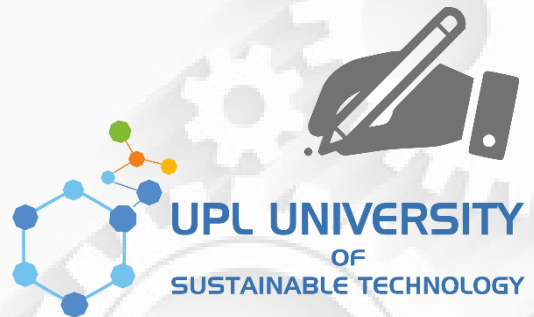
Although we talk about the Department, every student matters a lot. In fact, during the four years stay in the department and participating in several activities under the banner of Department of Mechanical Engineering our students have imbibed certain unique traits of the department. That's why we call it as discipline. These qualities in life make a person special and give good strength to face challenges and new situations. The final year project work teaches them how to correlate theory with practice; the announcement of results teach them to sustain surprises – good or bad; the NBA activity participation taught them team work to produce quality with formidable documentation; the 100 point activity definitely taught them compilation and record keeping, and many others to extend this list. Overall, I, however, believe that these four years have given our students an insight into living life more appreciatively and wholly.

I extend my best wishes to you all.

Yours

Shrikant J. Wagh

Provost, UPL University of Sustainable Technology





I am happy to note that the Department of mechanical engineering is releasing its Newsletter enumerating the various activities and achievements of our faculty and students. The newsletter is one of the ways in which we can disseminate information on the life of the Department. The department endeavors to produce confident professionals tuned to real time working environment. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them.

Department offers a large number of interdisciplinary courses for providing cross-cutting knowledge to the students to pursue their interests. The course contents are periodically updated for introducing new scientific and technological developments. Undergraduate students are encouraged to undertake various research projects and encouraged to spend time in the neighboring industries.

Our objective is not to merely produce professionals capable to serve their own needs but Endeavour to serve the society with great concern for human values.

I wish success to all students in your endeavor to join us on the journey of quality education & to have a great learning experience with my excellent, loving & caring team.

Yours

Hemantkumar Gupta

Head of Mechanical Engineering Department





Department Activities



Industrial Visit



Students of 6th Semester visited Cattle Feed Plant of Dudhadhara Dairy, Dediya pada on 28/03/2022 understand Design of Engineering equipment and Control Engineering.



Students of 6th Semester visited Shri Ambica Sales and Services, Kamrej workshop on 30/03/2022 understand Automobile Engineering.



Industrial Visit



Students of 6th Semester visited Colourtex Industries Vilayat plant on 09/04/2022 understand Applied Thermodynamics, Industrial Engineering, Machine Design.



Students of 6th Semester visited Cattle Feed Plant of Dudhadhara Dairy, Dediya pada on 28/03/2022 understand Design of Engineering equipment and Control Engineering.

Expert Lecture



Topic	Speaker	Designation	Semester	Date
Basic Overview of the Industry	Mr. Keval Patel	GET (Project Purchase), UPL Ltd., Ankleshwar	4 th	01/01/2022
Welding Processes	Mr. V. S. Rohan	Founder-Director, QC Tech Services, Surat	6 th	29/01/2022
CV preparation & How to prepare and attend an interview	Mr. Bejoy Kothari	General Manager (Marketing & Liaison), BRCPL, Baroda	4 th & 6 th	05/02/2022
Gas Turbine	Mr. Ravi Singh	Manager (Mechanical Maintenance), NTPC Ltd., Jhanor	4 th & 6 th	24/03/2022
Crash worthiness in Automobile Industries	Mr. Tiju Thomas	New Product Development Head, First consistent Solutions Private Limited, Bengaluru	4 th & 6 th	25/03/2022
Fluid Mechanics	Mr. Tejas Chauhan	Executive Projects, BEIL Research & Consultancy Pvt Ltd. , Dahej	4 th	27/04/2022

Peer Learning Initiative

Expert Lectures

Enrollment No. of Student	Name of student with SEM	Date of PLI	PLI Subject Name	Name of Concerned Faculty
190990119010	Rana Mihir Deepak Kumar	05-04-22	MP	Mr. Satish Kumar Verma
190990119005	Chirag Modi	29-03-22	MP	Mr. Satish Kumar Verma
190990119009	Raj Purohit Akshay	22/03/22	FMHM	Mr. Samik P Bhatt
190990119009	Raj Purohit Akshay	29/03/22	FMHM	Mr. Samik P Bhatt
180990119013	Pawar Vishal Shankarbhai	20/04/2022	REE	Mr. Chetankumar R. Patel
180990119013	Pawar Vishal Shankarbhai	21/04/2022	REE	Mr. Chetankumar R. Patel
180990119014	Prajapati Yogin	25/04/2022	AE	Mr. Shivang Ahir
180990119006	Khatri Lokesh	13/04/2022	BIE	Mr. Girish Bramhakshatriya
190993119012	Shah Meet	20/04/2022	BIE	Mr. Girish Bramhakshatriya





Review of Internship/Major Project of 8th Semester MED Students has been organised on 04/05/2022 in the presence of Mr. Nikhil Kulkarni from Analpa Industries. Sir have evaluated all the students and give them important suggestions /feedback for their career. MED SRICT is very much thankful to Mr. Nikhil Kulkarni for his valuable presence and feedback.



Clay Modelling Competition

Under the AEGIS of Azadi ka Amrut Mahotsav (AKAM) & In association with IQAC, "Clay Modelling Competition" was organised by the mechanical Engineering Department for 1st year D.E and B.E students on 21/03/2022. 24 team participated. Event Co-ordinated by Ms. Sandhya Shetty.

Winners

1st

Anjali
Riya
Raj

(B.E. Environment Science & Technology)

2nd

Ashish
Priya
Priya Singh

(Diploma Computer Engineering)

3rd

Darshil
Chinmay
Dhruv

(B.E. Chemical Engineering)



Refugee Day Celebration

Expert Lectures



Under the AEGIS of Azadi ka Amrut Mahotsav (AKAM) & In association with IQAC, on world refugee day "Donate Your Clothes" was organised by the mechanical Engineering Department for on 28/06/2022. Event Co-ordinated by Ms. Sandhya Shetty.



Workshop



Hands on Workshop on “AutoCAD and Solidworks Simulation” for 4th Semester Students on 10/05/2022 delivered by Mr. Keyur Chawda (Education Manager), Mr. Mitul Patel, Mr. Harshit Patel, Sopan Institute and Design, Surat. Event coordinated by Ms. Sandhya Shetty.



Workshop on “Fusion 360” for 6th Semester Students on 04/05/2022 delivered by Mr. Sagar Brahmhatt, Certified Autodesk Instructor, Mechman Solutions, Baroda. Event coordinated by Ms. Sandhya Shetty.





ABHYUTTHAN

A felicitation program “ABHYUTTHAN” was organised on 11th April, 2022 to felicitate B.E. 2019 batch (5th Semester) and 3rd Semester M.E. 2020 batch (3rd semester) students for their GTU results of Winter-2021. Chief guest of the event, Padmashri Dr. Lataben Desai (Founder of Society for Education Welfare and Action-Rural (SEWA Rural)) graced the occasion with her presence in the event.



A felicitation program “ABHYUTTHAN” was organised on 9th June, 2022 to felicitate 2021 batch (1st Semester) students for their results of Winter-2021. Chief guest of the event, Mr. B. J. Prajapati (Associate Vice President, Godrej Industries Ltd.) graced the occasion with his presence in the event.



A felicitation program “ABHYUTTHAN” was organised on 9th June, 2022 to felicitate B.E. 2020 Batch (3rd Semester) students for their GTU results of Winter-2021. Chief guest of the event, Mr. Saket Guha (Unit Head, Convergence Chemicals Pvt. Ltd.) graced the occasion with his presence in the event.





Academic award ceremony of Batch 2018-2022 “ABHYUDAY-2022” was held on 16th July 2022 at Diamond theatre, Ankleshwar to honour the shiny star students of semester VIII who showcased outstanding performance in GTU summer 2022 examination Total cash prize worth of Rs. 2,99,000 have been rewarded to top scorer 145 UG students by ARES management of SRICT. 05 UG students have been awarded with Gold medals sponsored by UPL.



Memorandum of Understanding

University has collaboration with foreign universities and reputed organizations for students and faculty exchange to develop teaching and research areas.

Name of Industry/Organization	Date of MoU
Shree Ambica Auto Sales And Services	13.04.2022
Petromech Baroda LLP.	25.05.2022
VND Plastico Pumps Pvt.Ltd, Vadodara	27.06.2022
Amafh Air Conditioning Engg.	05.07.2022
Piston Club	06.07.2022
Shreeji Engineering	12.07.2022





Faculty Achievements

Dr. Hemantkumar Gupta received certificate of appreciation for outstanding contribution as a Visheshagya for NBA/NAAC Accreditation.



Mr. Satish Kumar Verma successfully completed STTP on “Let’s Make A Difference” at LMAD, Panchgani, Maharashtra during 01/06/22 to 08/06/2022.



Faculty Achievements



Mr. Hiren R. Mahida is successfully completing his Ph.D. His research topic was "Theoretical and experimental investigation of a dedicated producer gas engine technology" from Gujarat Technological University. Ahmedabad.



Congratulations

Dr. Hiren Mahida

on his successful Ph.D. defence in Mechanical Engineering
from Gujarat Technological University

Research Area:
Gasification Technology,
Internal Combustion Engine

Students Achievement

Sumit Singh students of 2020 batch of Mechanical winning trophy in the sprint event of Annual Sports “WINSTINCT-2022” organised by UPL University of Sustainable Technology during 8 to 10th March, 2022.



Sumit Singh,

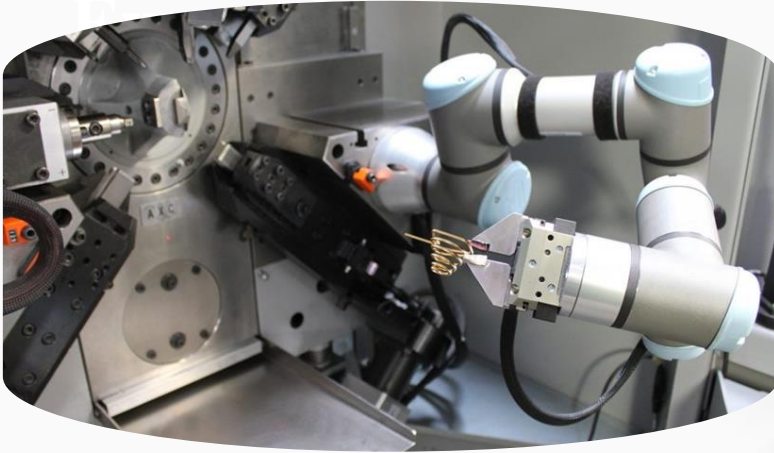
B.E. Mechanical Engineering (2020 Batch)



Figure shows the actual photograph of Linear Fresnel collector (LFC). The linear Fresnel collector consists of a frame, made up of mild steel housing the reflectors and a receiver unit. The reflectors are made up glass, served to concentrate the direct solar radiation to the receiver unit. The solar rays hits directly the absorber tube. The absorber tube has placed at a certain height from the plane of reflectors. The absorber tube contains water as a heat transfer fluid, gets heated to produce hot water or steam. Valves are provided at inlet and discharge line to regulate the flow of water and steam respectively. The receiver is painted black to increase the absorptivity and ensures more availability of heat flux to heat the water. An optimal gap between the successive reflectors are maintained to avoid the shading and blocking effects for maximum duration.



Mr. Gunjan Kumar
Assistant Professor, MED



Universal Robots started with the introduction of cobots in 2009 and has now introduced three variants to the market: the UR3, UR5 and UR10. These cobots are characterized by their flexibility, light weight and user-friendliness and have 6 separate joints. They are perfect for mid-size companies that need flexible, effective automation with a fast return on investment. Thanks to their light weight, they are easy to move around and do not require a robust surface.

The robots are supplied with attributes that make it possible to program them, such as a controller box, a touch screen and software. The graphical interface makes programming easy and accessible for everyone. In addition, according to the applicable rules, they can be operational without shielding and can be placed in a shared workspace with employees.

Himanshu Dubby

B.E. Mechanical Engineering (2020 Batch)



Students Speaks

The mechanical engineering is an evergreen field so the institute should be like that which helps students to compete in the world market. In this institute the mechanical department is one of the best department which focus to grow the students in every aspects. The various activities conducted by department like expert lecture which helps students to know the practical things which they are learning throughout semester. Industrial visit is there in every semester so that students can learn the things practical.

Department provides all types of necessary infrastructure, facilities and equipment. Our department provides many facilities like Digital Classrooms, Virtual Attraction through teachers, wireless Fidelity, a well organised library for students and so on maintained and managed by in charge of our collage with the best of his knowledge. All the areas in our Collage are neat and clean and our Collage hires many of the workers to maintains and clean the classrooms, campus and ground area too.



Prince Patel

B.E. Mechanical Engineering (2020 Batch)

Mechanical engineering is concerned with the responsible development of products, processes, and power, at scales ranging from molecules to large and complex systems. Mechanical engineering principles and skills are involved at some stage during the conception, design, development, and manufacture of every human-made object with moving parts. Many innovations crucial to our future will have their roots in the world of mass, motion, forces, and energy, the world of mechanical engineers. Mechanical engineering is one of the broadest and most versatile of the engineering professions.

Our Head of the Department is very polite and All Faculty members are very kind and helpful not only in professional things but also in personal things as well. This is reflected in the portfolio of current activities in the Department of Mechanical Engineering , one that has widened rapidly in the past decade. Today, our faculty are involved in a wide range of projects, including designing tough hydrogels, developing efficient methods for robust design, creating optimization methods that autonomously generate decision-making strategies and developing coatings to create nonstick surfaces

Mihir Rana

B.E. Mechanical Engineering (2019 Batch)



Placement (2018 Batch)

Expert Lectures



Divyank Bhavsar
UPL Limited



Vihar Patel
UPL Limited



Hemraj Parmar
Reliance Ltd.



Lokesh Khatri
Autotech Nonwovens



Naitik Patel
RO Chem



Parth Patel
RO Chem



Jay Shah
Lanxess India



Vishal Pawar
Dhanuka Agritech



Keval Limbachiya
Convergence



Divyesh Rana
Birla Century



Meet Shah
UPL Limited



Tejas Parmar
Dhanuka Agritech



Yogin Prajapati
Saftey Services



Shashikant Kushwaha
Birla Century



Yashraj Kher
SUN Pharma



Digvijay Chauhan
Rensa Tubes



Ashish Kokani
Rensa Tubes



Satyajeeet Singh
RO Chem



Marufahmad Pathan
RO Chem



Sreekanth
UPL Limited

Words of Alumni...

Hello Everyone,
Here I'll like share my journey in SRICT. I'm the very first batch 2011's student. at that time there's only one building was there and rest of all the things are in under construction. I saw the complete progress of SRICT. My Journey was not as easy but I'm really thankful to be Mr. Samir Jariwala Sir, Hiren Mahida Sir, Girish Bramhakshatriya Sir, Chetan Patel Sir and Shivang Ahir Sir to help me out during each and every moment, either it's academically or nonacademically. I'm really thankful to Dr. Rajesh Iyer sir also. SRICT is something unique and different as compared to rest of the Engineering collages. Currently I'm Working in USA Based Biotechnology MNC "Avantor Performance Materials India Ltd" at Panoli. its been Honor to be called my self "SRICTian"



Sampan Shukla
Alumni, B.E. Mechanical Engineering

It's really a pleasure to write about the place which has been defining part of my life. Trying to remember the wonderful times and people I came across at Shroff SR Rotary Institute of Chemical Technology (SRICT), I feel good and realizing how far I have come ahead in life, I cannot be less grateful to this institute which had a positive impact on my career.

As the quote goes - "The quality of university is measured more by the kind of student it turns out than the kind it takes in." - Robert J. Kibbee

This is very much evident in my case when after graduating from this institute I was a better person, not only to make a good career but also a person with a strong character. The friends I made, the peer group I had, the faculties who taught me and all the people I met in my four years, reminiscing about all of it, I feel glad that I was able to come across such wonderful people in my lifetime.

From an academic point of view, I believe we got the best of facilities and quite industrious faculties of the contemporary times. This was more so because of the vision rooted in the ethos of the institute, set by the management of giving the quality education which not only meant a singular dimensional delivery but a multi-pronged approach of practical learning and ethical perspective. The importance of the latter I only understood when I had started working in my career. I learnt that an ethical mindset can actually complement my academic learnings with the loudest impact and SRICT was the platform where I was able to gain this. I vividly remember the peer learning initiative which had begun in 2014 and the role it played to develop myself in a very holistic manner. I am also grateful for all the leadership avenues I got to be part of during my tenure which helped me immensely to contribute towards betterment of people around us and help everyone to have a shared future full of opportunities.

The extra-curricular activities were really one of a kind at SRICT and I am happy to tell you that some of the amazing times and fun I had with my friends was here. The networking opportunities in the form of extra-curricular and co-curricular initiatives like expert lectures and industrial visits helped me and batchmates to connect with people who proved to be of great importance to get a headstart in our respective careers.

Four years are filled with so much more, wonderful experiences and failures, adversities and good times, that a single article cannot do justice. But one thing which I am glad about is that looking back on this nostalgia, I feel ever so grateful to everyone who was part of this specific journey of mine in this institute. I believe the institute in its new avatar UPL University of Sustainable Technology is well poised to provide great careers to all the students' currently studying here. I want to convey my gratitude to all the people from my time who are still a part of this organization and also wish all the best to everyone for their contribution towards a better shared future.



Rhishabh Jadhav

Alumni, B.E. Mechanical Engineering

Words of Alumni... When All Batch Speaks...

SRICT is the place where we have learned so many things which helps us to thrive and succeed in the world today. The best thing we have experienced is the power of “Team work” that we have experienced through this journey at SRICT. Whether it’s an exam, viva, event or competition, the environment and the culture of SRICT always teaches us how to work through coordination. Today’s world is the world of competition in which big results can’t be achieved without teamwork and harmony. The faculty of SRICT always makes us believe that “Teamwork is the secret that makes common people achieve uncommon goals”. Today, we are achieving big outcomes in our professional and personal life through the learning of this journey at SRICT. Thank you SRICT.

Darshan S Parmar

Alumni, B.E. Mechanical Engineering



Photography

Expert Lectures

Students Corner



Manav Khanvillkar

B.E. Mechanical Engineering
(2020 Batch)

Pencil Sketch



Sandeep Rana

B.E. Mechanical Engineering
(2020 Batch)

From the Desk of Editor...



“All of us do not have equal talent. But all of us have an equal opportunity to develop our talents”

Dr. A.P.J. Abdul Kalam

A newsletter is like a mirror which reflects the clear picture of all sorts of activities under taken by the Department. It is a matter of great pride and satisfaction for Mechanical Engineering to bring out the Newsletter. We are confident that this issue of the Mechanical Engineering Department newsletter will send a positive signal to all the students, faculty and staff.

We are indeed very happy and proud in bringing this newsletter about the latest developments and Programs in the department. Newsletter acts as a communication channel among the alumni, faculty, students and experts in Mechanical Engineering fields.

Congratulations to the Editorial Board of this newsletter who have played a wonderful role in accomplishing the task. Heartfelt gratitude to HOD, Faculty, staff members and Students for their fruitful effort during the period.

Editorial Team

Head of Department: Dr. Hemantkumar Gupta

Faculty Members: Mr. Ankit Solanki and Ms. Sandhya Shetty

Student Coordinators: Mr. Chirag Modi, Mr. Mihir Rana, Mr. Prince Patel,
Mr. Himanshu Dubey, Mr. Anjeet Kushwaha, Mr. Premkumar Patel



All the Best to Outgoing Batch 2018 to 2022



For Your Future Endurance.....



Department of Mechanical Engineering

Shroff S. R. Rotary Institute of Chemical Technology

Block No. 402, Ankleshwar-Valia Road, Ta: Valia, Dis: Bharuch-393135



Azadi Ka Amrit Mahotsav

Har Ghar Tiranga - 13th - 15th August 2022

