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Vision

To be a centre of quality technical education in the field of mechanical engineering leading to competent technocrats with ethical values through state-of-the-art teaching and research methodology.



Mission

- > To impart undergraduates quality technical education along with sound technical communication skill.
- > To provide the quality infrastructure, tools and teaching-learning environment.
- > To inculcate qualities of leadership, teamwork and entrepreneurship with professionalism and ethical values.
- > To bridge students with industries and research organizations so as to increase placement or higher studies preferences amongst the graduates.

Program Educational Objectives



Our graduates will have qualities of an engineer with strong knowledge of fundamentals & application in the field of Mechanical Engineering.





Our graduates will have knowledge of design, Modern tools and research techniques to meet societal as well as global technological challenges.





Our graduates will have the qualities of pragmatism and life-long learning in context of advancement in technology.





Our graduates will be able to serve their best for the nation.





Program Specific Outcomes



Graduates would be able to understand and analyze mechanical systems in a discipline of thermal, fluid, energy design and production engineering.





Graduates would be able to analyze and solve complex industrial as well as research problem through an engineering concepts and various graphical, computational, experimental and mathematical tools.



Program Outcomes



Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and mechanical engineering specialization to the solution of complex engineering problems.



Problem analysis:

Identify, formulate, review research literature, and analyses complex engineering problems reaching substantiated conclusions using principles of mathematics, natural sciences, and engineering sciences.



Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.



Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.



The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the mechanical engineering practice.



Environment and sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



Individual and team work:

 $Function\ effectively\ as\ an individual, and\ as\ a\ member\ or\ leader\ in\ diverse\ teams, and\ in\ multidisciplinary\ settings.$



Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in mechanical engineering or multidisciplinary environments.



Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Shri. Manharbhai L. Patel Hon. Managing Trustee

"Our goal is to build a long term career with leading organizations to address the critical needs of the society and foster economic development in which all stake holders can succeed and are involved in the continuous assessment and improvement process."



Shri. Kiritbhai N. Patel
Secretary

Shri. Ashwinbhai H. Patel Co-Secretary

Trust Members

Shri. Mahendra bhai S. Patel

Shri. Hasmukh bhai T. Patel

Shri. Harshad bhai S.Patel

Shri, Hitesh bhai K. Patel

Shri. Kalpesh bhai N. Patel

Shri. Kashyap bhai J. Patel

Welcome to S N Patel Institute of Technology and Research Center, Umrakh



Dr. Piyush S. JainPrincipal & Professor

S. N. Patel Institute of Technology & Research Centre is a self financed technical institute offering UG and PG level courses. It was established in 2008 and managed by Vidyabharti Trust. The institute is affiliated with Gujarat Technological University (GTU) and recognized by AICTE. The institute, in all its aspects is an ideal place where students interact with faculties in the creation of new knowledge & enhance the quality of life.



Welcome to The Mechanical Engineering Department of SNPIT&RC!



Prof. Vishal Z. DhimmarHead & Assistant Professor
Mechanical Engineering

The field of engineering known as mechanical engineering is adaptable and robust. Mechanical engineers can work in a variety of specialized fields, such as software development, automobile system engineering, aerospace engineering, design engineering, dynamic system and control, power plant engineering, etc.

The department has highly capable, committed faculty members and laboratories. Through solid theoretical understanding, practical laboratory and computational skills, and exposure to cutting-edge technology through industry visits, we provide top-notch engineering education.

We regularly host seminars featuring outside experts as lecturers on contemporary issues in mechanical engineering. Students receive training in a variety of industry-related software programs, including AUTO-CAD, PRO-E, etc., to provide them a competitive edge and greater employment prospects.

In response to the COVID-19 pandemic, the department has adapted to the digital medium to conduct most of its activities. The editorial team has collaborated online to document the magazine in an appreciable manner.

Sculptor of Magazine

Patron



Dr. Piyush S. JainPrincipal & Professor



Prof. Vishal Z. Dhimmar Head & Assistant Professor

Chief Editor



Prof. Vivek B. Bhagat
Assistant Professor



Prof. Rikesh B. Prajapati
Assistant Professor

Editorial Board



Mr. Ajay Baheliya



Mr. Sujit Rupapara



Mr. Fenil Thummer



Miss. Twinkle Chaudhari

Staff Achievements



Prof. Vivek B. Bhagat

Assistant Professor

- Successfully completed 12 Week online STTP on "Introduction to Research" Organized by IIT Madras.
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".



Dr. Nirav M. Patel

Assistant Professor

- Successfully completed 12 Week online STTP on "Introduction to Research" Organized by IIT Madras.
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".



Prof. Mayank B. Parmar

Assistant Professor

- Successfully completed 12 Week online STTP on "Introduction to Research" Organized by IIT Madras.
- Successfully completed online STTP on "Implementation Of Emerging Waste to Energy Technologies".
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".



Dr. Arif M. Varsi

Assistant Professor

- Successfully completed STTP on "Computer integrated manufacturing".
- Successfully completed STTP on "Design engineering level -1".
- · Successfully completed STTP on "Inculcating universal human values in technical education".
- Successfully completed STTP on "3D printing and design for innovative medical devices".
- Successfully completed STTP on "Recent advancement in manufacturing processing".



Dr. Shakil A. Kagzi

Associate Professor

- Successfully completed STTP on "Machining science".
- Successfully completed STTP on "Design engineering level -1".
- Successfully completed STTP on "Inculcating universal human values in technical education".
- Successfully completed STTP on "Nanotechnology materials characterization synthesis and application".
- Successfully completed STTP on "Recent advancement in manufacturing processing".



Prof. Priyank P. Dave

Assistant Professor

- Successfully completed online STTP on "Implementation Of Emerging Waste to Energy Technologies".
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".
- Successfully completed STTP on "Design engineering level -1".



Prof. Hitesh A. Tailor

Assistant Professor

- Successfully completed STTP on "Inculcating universal human values in technical education".
- Successfully completed STTP on "Basic of tribology and its industrial engineering application".
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".



Prof. Hiren B. Tamboli

Assistant Professor

 Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application".



Prof. Nilesh V. Rana

Assistant Professor

- Successfully completed online STTP on "Computer integrated manufacturing".
- Successfully completed online STTP on "Computer assisted designing and machining".
- Successfully completed online STTP on "Nanotechnology materials characterization synthesis and application"



Student Achievements



Congratulations to **Jayminkumar Jayeshbhai Bilimoriya**Student of Mechanical Engineering Department
has secured admission in Master program of Westcliff University, USA on July 2021.



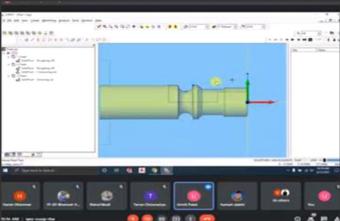


Congratulations to **Chirag Shyamlal Sahu**Student of Mechanical Engineering Department
has secured admission in NIT Surathkal on field of Computational and Data Science Program.

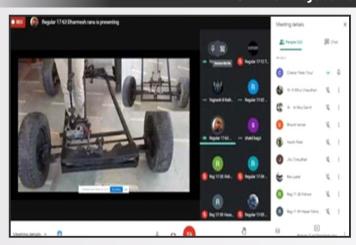
Department Activity

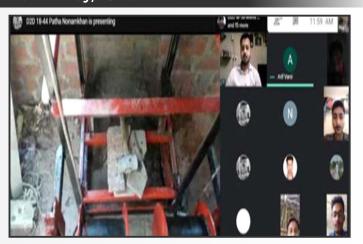
Department of Mechanical Engineering, SNPIT&RC-Umrakh Successfully Organized Online Internship Computer Assisted Design and Machining (CADM-2021) (31st May, 2021 to 12th June, 2021).



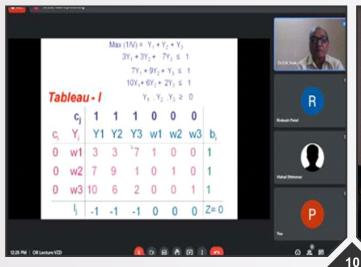


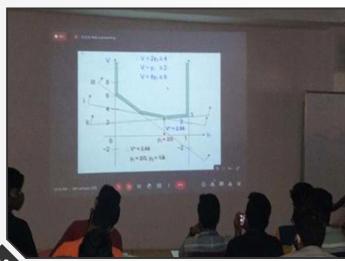
S. N. Patel Institute of Technology & Research Centre, Umrakh - Bardoli, Gujarat successfully organized an "Online Project Fair" on 2nd May, 2021.





Department of Mechanical Engineering, SNPIT&RC-Umrakh successfully organized an expert lecture (online) on "Operation Research" for the final year students on 6th October, 2021. The speaker for the lecture was Dr. D. B. Naik, Ex. Professor & Head,
Training & Placement Section, SVNIT Surat.

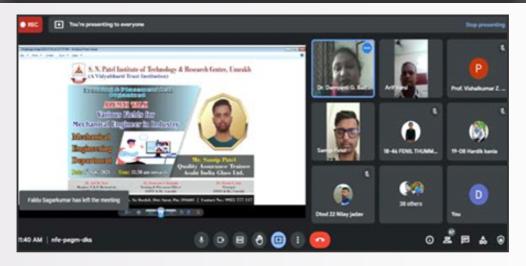




2021

Training & Placement cell along with the Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a Webinar on "Various Fields for Mechanical Engineer in Industry" on 3rd July 2021.

The speaker was Mr. Samip Patel, Quality Control Trainee, Asahi India Glass Ltd.

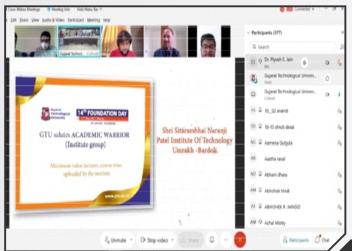


Training & placement cell of SNPIT & RC and Assistant Director (Employment)
Office Surat (Director of Employment & Training),
Gandhinagar, Government of Gujarat have jointly organized
Training & Recruitment Awareness Webinar Series 2021 from 23rd March, 2021 to 27th March, 2021.





Prof. Hitesh A Tailor from the Mechanical Engineering Department has been felicitated for successfully organizing the "Man Nu Sanitization" webinar during COVID-19 situation.





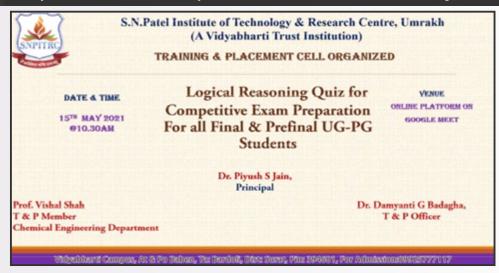
Woman's Day Calibration at S N Patel Institute of Technology & Research Centre, Umrakh on 8th March 2021.







Training & Placement Cell of SNPIT& RC, Umrakh Successfully organized Logical Reasoning Quiz for competitive exam Preparation for all Final & pre-final UG-PG Students on 15th May, 2021



Vidyabharti Trust campus, Umrakh organized an event on "Energy Swaraj" on 25th January, 2021, Monday at S. N. Patel Institute of Technology & Research Centre, Umrakh. The Chief Guest of the event was Dr. Chetan S. Solanki, IIT Bombay.







2021

"SAINIK WELFARE FUND" collected on 10th February 2021 at VIDYABHARTI TRUST, UMRAKH.

"Regard your soldiers as your children, and they will follow you into the deepest valleys; look on them as your own beloved sons, and they will stand by you even unto death"

- Sun Tzu



"We sleep safely at night because rough men stand ready to visit violence on those who would harm us".

-Winston Churchill

Training & Placement cell along with the Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a Webinar on "Career Opportunities in Mechanical Engineering" on 20th February, 2021.





"INTERNATIONAL YOGA DAY"

Celebration on 21st June, 2021 by

S. N. Patel Institute of Technology & Research Centre, Umrakh.







'Yoga is the journey of the self, through the self, to the self" -Verse-4, Chapter 15, Bhagavad Gita.

Department of Mechanical Engineering
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a Seminar on "Career Guidance for Government Jobs"





Department of Mechanical Engineering S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a Seminar on "Traffic Rules & Road Safety" on 28th October, 2021.





Department of Mechanical Engineering
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a Workshop on "Entrepreneurship and Innovation as Career Opportunity "
on 3rd December, 2021.





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Training & Placement cell along with the Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a Webinar on "Career Opportunities after Degree Engineering" on 9th July, 2021.





Department of Mechanical Engineering

S. N. Patel Institute of Technology & Research Centre, Umrakh has organized STTP on "Nanotechnology: Materials, Characterization, Synthesis, and Applications"

6th - 10th September, 2021.





Celebration of "Azadi ka Amrit Mohatshav" at S. N. Patel Institute of Technology and Research Centre, Umrakh.









Department of Mechanical Engineering S. N. Patel Institute of Technology & Research Centre, Umrakh has Celebrated "Energy Conservation Day", on 14th December, 2021.





Department of Mechanical Engineering S. N. Patel Institute of Technology & Research Centre, Umrakh has Organized "Tree Plantation Drive -2021" on 8th July, 2021.









