



SHRI SITARAMBHAJ NARANJJI PATEL INSTITUTE OF TECHNOLOGY,

MANAGED BY
VIDYABHARTI TRUST, UMRAXH - BARDOLI



Mech Marvel 2019

MECHANICAL ENGINEERING
DEPARTMENT

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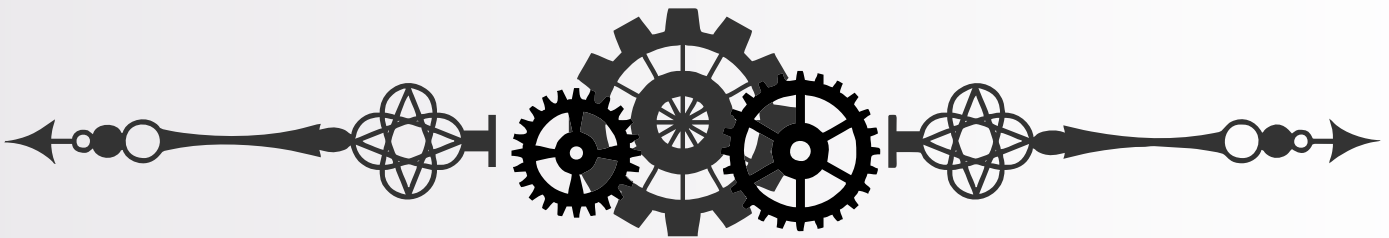
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Vision

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

01

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

02

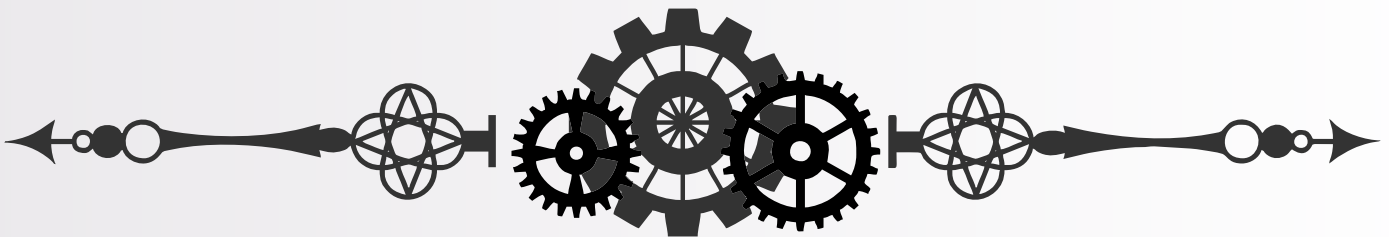
Our graduates will have knowledge of design, Modern tools and research techniques to meet societal as well as global technological challenges.

03

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

04

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



Program Specific Outcomes

01

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

02

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

PO 01

Engineering knowledge:

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

PO 02

Problem analysis:

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

PO 03

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.

PO 04

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.

PO 05

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.

PO 06

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.

PO 07

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.

PO 08

Ethics:

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

PO 09

Individual and team work:

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

PO 10

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.

PO 11

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.

PO 12

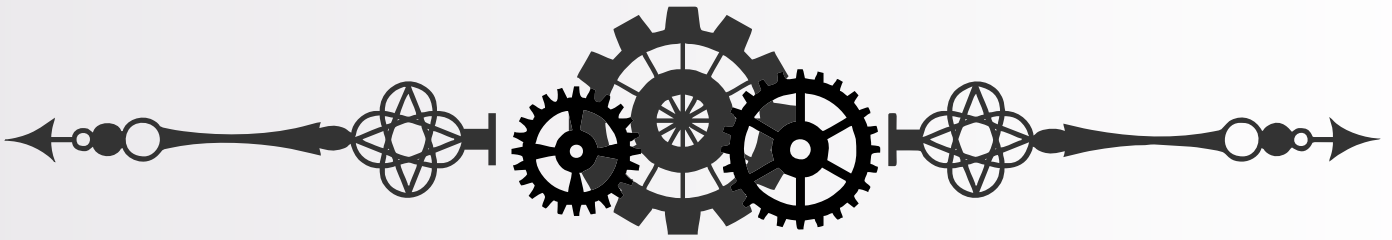
Life-long learning:

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. Kashyap Bhai J. Patel

Shri. Kalpesh bhai N. Patel

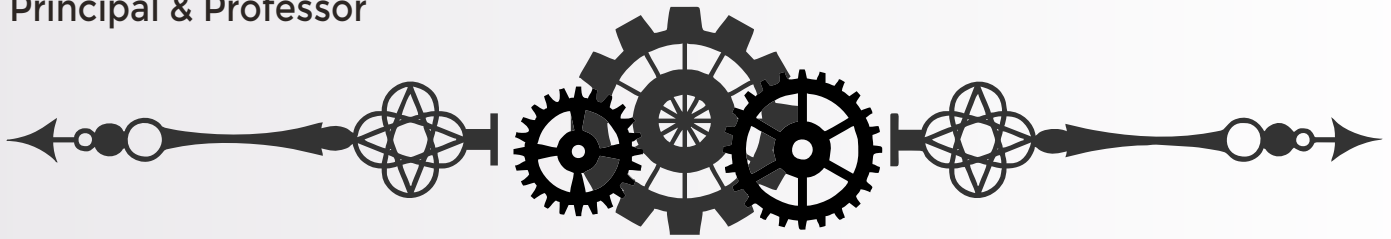
Shri. Bharat bhai S. Patel

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



Dr. Piyush S. Jain
Principal & 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. Dhimmar
Head & Assistant Professor
Mechanical Engineering

Mechanical engineering is versatile and evergreen branch of engineering. Mechanical engineer can work in various specialized area like automotive system, aerospace engineering, design engineering, dynamic system and control, power plant engineering, etc. and most importantly in software field also.

Department has well qualified and dedicated faculties with well-developed laboratories. We impart quality engineering education through sound theoretical knowledge, hands on laboratory as well as computational skill and exposure to recent technologies by visiting industries.

We are continuously arranging seminars on current trends related with mechanical engineering along with external specialized speakers. Students are trained in various Industry related software's like AUTO-CAD, PRO-E etc., to take competitive advantage and for better job opportunities.

Sculptor of Magazine

Patron



Dr. Piyush S. Jain
Principal & Professor



Prof. Vishal Z. Dhimmar
Head & Assistant Professor

Chief Editor



Dr. Arif M. Varsi
Assistant Professor



Prof. Rikesh B. Prajapati
Assistant Professor

Editorial Board



Mr. Yash Khatri



Mr. Sanket Salvi



Mr. Tarkik Chaudhari



Mr. Bhavik Vartak

Staff Achievements



Prof. Vishal Z. Dhimmar
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".
- Successfully completed STTP on "Engineering drawing and computer graphics".



Dr. Arif M. Varsi
Assistant Professor

- Successfully completed STTP on "Outcome based education & NBA accreditation".
- Successfully completed STTP on "Design Of Experiment And Artificial and neural network".
- Successfully completed STTP on "Application Of Natural Fibre Reinforced Composite In Small And Medium Sector".



Prof. Milan R. Patel
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".



Prof. Priyank P. Dave
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".



Prof. Hitesh A. Tailor
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".



Prof. Hiren B. Tamboli
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".



Prof. Nilesh V. Rana
Assistant Professor

- Successfully completed STTP on "Outcome Based Education & NBA Accreditation".

Department Activity

The Department of Mechanical Engineering organized an Expert Lecture on “Basic of AutoCAD and Advanced Modelling Tool-Autodesk Fusion360” as the subject Computer Aided Design and Machine Design & Industrial Drafting on 07/01/2019 at SNPIT & RC, Umrahk.



The Department of Mechanical Engineering organized an Expert Lecture on the “Assignment Model” for the subject of Operation Research for the year students at SNPIT&RC, Umrahk.



The Department of Mechanical Engineering organized an Expert Lecture on “Basic of AutoCAD and Advanced Modelling Tool - Autodesk Fusion 360” as the subject Computer-Aided Design and Machine Design & Industrial Drafting on 07/01/2019 at SNPIT&RC, Umrahk.



The Department of Mechanical Engineering organized an Expert Lecture on “Linear Programming & Game Theory” as a part of the subject: Operation Research at SNPIT&RC, Umrahk.



The motivational lecture on GANDHI & GEETA was arranged by S. N. Patel Institute of Technology & Research Centre, Umrahk. The expert talk was delivered by Pujya Viveknishth Swami (BAPS, Sarangpur).



The National Service Scheme (NSS) and Vidyabharti Trust, in association with Sardar Smarak Hospital Blood Bank and Rotary Club of Bardoli have organized BLOOD DONATION CAMP in the premises of S. N. Patel Institute of Technology & Research Centre, Umrahk on 5th September, 2019.



Mechanical department had arranged one-day visit of Surat District Co-operative Milk Producers' Union Ltd, Surat on 8th January 2019 for 3rd year students as a part of Refrigeration and air conditioning (RAC) Subject.



Mechanical Engineering Department of S.N.P.I.T. & R.C., Umrahk arranged an industrial visit to Jay Metal Tech Surat.



Mechanical Engineering Department of S.N.P.I.T. & R.C., Umrahk arranged an industrial visit to "ENGINEERING TECHNIQUE", Vadodara.



Mechanical Engineering Department of S.N.P.I.T. & R.C., Umrah arranged an industrial visit to Nuclear Power Plant, Kakrapar.



A Seminar on Student Startup and Innovation Policy (SSIP) had been conducted on 5th September 2019, at Sitarambhai Naranjibhai Patel Institute of Technology & Research Centre, Umrah in order to spread Importance of SSIP.



The Department of Mechanical Engineering had organized six days workshop on "ROLE OF AUTOMATION IN MANUFACTURING: VERTICAL MACHINING CENTRE" sponsored by Gujarat Council on Science & Technology (GUJCOST), Department of Science and Technology (DST), Govt. of Gujarat at SNPIT&RC, Umrah.



The Department of Mechanical Engineering had organized six days workshop on “APPLICATION OF NATURAL FIBRE REINFORCED COMPOSITES IN SMALL AND MEDIUM SECTOR” sponsored by Gujarat Council on Science & Technology (GUJCOST), Department of Science and Technology (DST), Govt. of Gujarat at SNPIT&RC, Umrakh.



Awarded to Anant N. Doshi, student of Mechanical Engineering, S. N. Patel Institute of Technology & Research Centre, Umrakh, for “Admirable and Outstanding Participation in Technical Activities”, ISTE during 2018-19.



On Friday, 23rd August 2019, S. N. Patel Institute of Technology & Research Centre, Umrakh had organized DAHI HANDI CELEBRATION, where students participated the celebration enthusiastically.



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Graduation Day

The Graduation day Ceremony was celebrated on 21st July 2019



BATCH: 2015-2016

