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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. 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, 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.

Staff Achievements



Prof. Vishal Z. Dhimmar

Assistant Professor

- Successfully completed STTP on "Hands On With Creating And managing online teaching tools for teachers".
- Successfully completed STTP on "Travel consultant".
- Successfully completed STTP on "Robotics".



Prof. Nilesh V. Rana

Assistant Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Computer integrated manufacturing".
- Successfully completed STTP on "Product design and manufacturing".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".
- Successfully completed STTP on "Solar energy technologies and application".



Prof. Hiren B. Tamboli

Assistant Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Flow energy and combustion".
- Successfully completed STTP on "Refrigeration and air conditioning".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".
- §Successfully completed STTP on "Universal human values for deeksharambh".



Prof. Hitesh A. Tailor

Assistant Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".



Prof. Priyank P. Dave

Assistant Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".



Prof. Milan R. Patel

Assistant Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".
- Successfully completed STTP on "Fundamental of manufacturing process".
- Successfully completed STTP on "Advancement in manufacturing technology for industrial application".
- · Successfully completed STTP on "Inculcating universal human values in technical education".



Dr. Arif M. Varsi

Assistant Professor

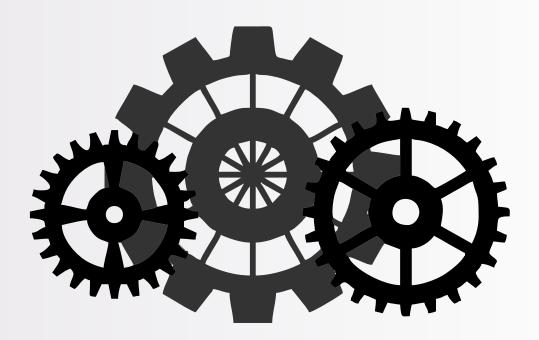
- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".
- Successfully completed STTP on "Computer integrated manufacturing".
- Successfully completed STTP on "Universal human values for deeksharambh".



Dr. Shakil A. Kagzi

Associate Professor

- Successfully completed STTP on "Role of production engineer in advanced welding technology with NDT method".
- Successfully completed STTP on "Hands on with creating and managing online teaching tools for teachers".
- Successfully completed STTP on "NBA accreditation and teaching learning in engineering".
- "Universal human values for deeksharambh".
- Successfully completed STTP on Mechanical and manufacturing engineering.



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. Prakash Khairnar



Mr. Swapnil Prajapati



Mr. Valay Rana



Miss. Mohini Mahyavanshi

Student Achievements



Darshit V. Mahyavanshi



Hiral J. Patel



Nikul Kothiya

Congratulations to Students of Mechanical Engineering
Darshit V. Mahyavanshi, Hirak J. Patel, and Nikul Kothiya Department got a place in
Rayzon Green energies, Surat.





Karan Chaudhary



Nikunj Patel

Congratulations to Students of the Mechanical Engineering Department Karan Chaudhary and Nikunj Patel got a placed in Veeline Media Ltd.Tarsadi, Surat, Gujarat.

Department Activity

Shri Sitarambhai Naranjibhai Patel Institute of Technology and Research Centre, Umrakh conducted a one day Industrial Visit to

SHREE KHEDUT SAHAKARI KHAND UDHYOG MANDLI LTD, Bardoli. 7th March, 2020.





Shri Sitarambhai Naranjibhai Patel Institute of Technology and Research Centre, Umrakh celebrated its Annual Day on 20th February, 2020.





Mechanical Engineering Department

Shri Sitarambhai Naranjibhai Patel Institute of Technology and Research Centre, Umrakh conducted a live Webinar on

"Design Thinking Methodology for Innovation in Engineering" on 17th June, 2020





Student Startup & Innovation Policy (SSIP) Cell of
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a webinar on "Idea to MVP (Minimum Viable Product)" on 13th June, 2020.





MECHANICAL ENGINEERING DEPARTMENT A Report on Two Days Workshop on "Role of production engineer in welding technology with NDT methods"

(12 - 13 February, 2020)





GUJARAT TECHNOLOGY UNIVERSITY NATIONAL SERVICE SCHEME
S. N. PATEL INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, UMRAKH
A Report on "webinar on New National Education Policy 2020" on 22nd September, 2020





2020

SHRI SITARAMBHAI NARANJI PATEL INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, UMRAKH ONE DAY INDUSTRIAL VISIT AT "Nish Techno Projects Pvt. Ltd.", SURAT ON 18th January, 2020







SAINIK WELFARE FUND" on 13th MARCH 2020 at VIDYABHARTI TRUST, UMRAKH.

"Regard your soldiers as your children, and they will follow you into the deepest valleys; look on them as your 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







2020

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 15th September, 2020





"INTERNATIONAL YOGA DAY" Celebration on 21st JUNE, 2020 at VIDYABHARTI TRUST, UMRAKH.





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

S. N. Patel Institute of Technology and Research Centre has arranged its 12th Sports Week which was scheduled for 16th to 19th February, 2020.

There are various sports events carried out for boys, girls, and faculty members.

Prof. Milan R. Patel (Sports coordinator) took care of the event.





2020

Gujarat Technological University (GTU) and Shri Sitarambhai Naranjibhai Patel Institute of Technology and Research Centre (SNPITRC), Umrakh-Baben jointly organized a webinar on the topic "Sanitization of Mind" on 6th June 2020. Param Pujya Gyan Vatsal Swami, an ardent speaker of BAPS joined us to provide thematic guidance. The chief guest of this program was Shri Ishwarbhai Parmar (Cabinet Minister - Department of Social Welfare), the special guest was Prof. Dr. Naveen Seth (Vice Chancellor, GTU) and Prof. Dr. K.N. Kher (Registrar, GTU) remains present. The entire program was conducted under the guidance of

Mr. Manharbhai Patel (Managing Trustee of Vidyabharati Trust), Mr. Kiritbhai Patel (Secretary), and Mr. Ashwinbhai Patel (Co-Secretary).









જ્ઞાનવત્સલ સ્વામી દ્વારા ફેસબુક માધ્યમથી મનનું સેનિટાઈઝેશન વિષય પર સેમિનાર

૪ લાખ વિદ્યાર્થી અને ૪૮૬ કોલેજના ટીચિંગ, નોનટીચિંગ સ્ટાફના લાભાર્થે આયોજન

ા બારકોલી ા

ગુજરાત ટેફનોલોજિકલ યુનિવર્સિટી સાથે બાબેન સ્થિત એસ.એન.પટેલ ઈન્સ્ટિટયૂટ ઓફ ટેકનોલોજી એન્ડ રિસર્ચ સેન્ટર ઉમરાખ દ્વારા મનનું સેનિટાઈઝેશન વિષય ઉપર સોમિનારનું આયોજન તા. દ-દ-૨૦૨૦ના રોજ બપોરે ૧૨:૦૦થી ૧:૩૦ દરમિયાન ફેસબુક લાઈવના માધ્યમથી જીટીયુના ૪ લાખથી વધુ વિદ્યાર્થી તેમજ ૪૮૬થી વધુ જીટીયુ સંલગ્ન કોલેજના ટીચિંગ તેમજ નોનટીચિંગ સ્ટાફના લાભાર્થે કરવામાં આવ્યું હતું. આ કાર્યક્રમના મુખ્ય અતિથિ કેબિનેટ મંત્રી ઈશ્વર

પરમાર તેમના વ્યસ્ત કાર્યક્રમમાંથી સમય ફાળવી ઉપસ્થિત રહ્યા.

આ કાર્યક્રમના મુખ્ય વક્તા જ્ઞાનવત્સલ સ્વામી જેઓ બીએપીએસ સંસ્થાની અંદર ૩૦ વર્ષથી પ્રમુખ સ્વામીની ભગવી સેનામાં સમાજના ઉદ્વાર માટે રાત-દિવસ સેવા કરી રહ્યા છે. તેઓને સાંભળવા માટે હજારો વિદ્યાર્થી ખૂબ જ આતુરતાથી ફેસબુક લાઈવ ઉપર ઓનલાઈન જોડાઈ રહ્યા હતા. તેઓના પ્રવચનનું મુખ્ય વિષય મનનું સેનિટાઈઝેશન રાખવામાં આવ્યું હતું. એમણે આ વિષય ઉપર વિદ્યાર્થીઓને ખૂબ જ ઊંડાણપૂર્વક વાત

કરી તથા વિદ્યાર્થીને જીવન જીવવા માટેના પાંચ સિદ્ધાંત જેવા કે ઈથીકલ વેલ્યુની જીવનમાં અગત્યતા, સખત પુરુષાર્થ, આળસ રાખવી નહીં, વ્યસનથી દૂર રહેવું અને ભગવાન ઉપર શ્રદ્ધા રાખવી એવા આ અગત્યના સિદ્ધાંતો ઉપર માર્ગદર્શન આપ્યું હતું. કાર્યક્રમના અંત ભાગમાં જીટીયુના રજિસ્ટાર ડો. કે.એન.ખેર દ્વારા કાર્યક્રમની જ્વલંત સફળતા બદલ જીટીયુ તેમજ બાબેનની એસ.એન.પી. આઈ.ટી. ઉમરાખને શુભેચ્છા પાઠવી તેમજ દરેક મહાનુભાવોનો આભા વ્યક્ત કર્યો હતો.

'મનનું સેનિટાઇઝેશન' વિષય પર ઉમરાખ કોલેજમાં વેબિનાર મળ્યો

ભાસ્કરન્યૂઝ | બારડોલી

ટેક્નોલોજિકલ **ાુજરાત** યુનિવર્સિટી અને બાબેન સ્થિત **ઇन्स्टि**ट्यूट નેસ.એન.પટેલ બોફ ટેક્નોલૉજી એન્ડ રિસર્ચ સેંટર ઉમરાખ દ્રારા 'મનનું સેનિટાઇઝેશન' વિષય ઉપર શનિવારના રોજ બપોરે 12.00 થી 1.30 દરમ્યાન ફેસબુક લાઈવના માધ્યમથી GTUના 4 લાખથી वधु विद्यार्थी तेमक 486थी वधु GTU સલંગન કોલેજના ટીચિંગ તેમજ નોન ટીચિંગ સ્ટાફના ાભાર્થે કરવામાં આવેલ હતું. લ્મનો મુખ્ય મધ્યવર્તી વિચાર

આવેલ હતો યુનિવર્સિટીના કુલપતિ પ્રો. ડૉ. નવીન શેઠ દ્રારા વિદ્યાર્થીઓને આવી પડેલા આ વિકટ સમયમાં કેવી રીતે અભ્યાસ કરી શકાય तेमक विषयने अनुरूप शरीरने સેનિટાઇઝ કરવાની સાથે મનનું સેનિટાઇઝેશન કેવી રીતે કરી શકાય, એનું માર્ગદર્શન આપવા આવ્યું હતું. પૂજ્ય જ્ઞાન વત્સલ સ્વામીશ્રી. જેઓ BAPS સંસ્થાની અંદર છેલ્લા 30 વર્ષથી પ્રમુખસ્વામીની ભગવી સેનામાં સમાજના ઉદ્ધાર માટે રાત દિવસ

આ કોરોનાની મહામારીમાં કેવી સેવા કરી રહ્યા છે. તેઓને રીતે પાર ઊતરવું એ રાખવામાં સાંભળવા માટે હજારો વિદ્યાર્થી ખુબજ આતુરતાથી ફેસબુક લાઈવ ઉપર ઓનલાઇન જોડાઈ રહ્યા હતા. તેઓના પ્રવચનનું મુખ્ય વિષય, "મનનું સેનિટાઇઝેશન" રાખવામા આવ્યુ હતું. એમણે આ વિષય ઉપર વિદ્યાર્થીઓ ને ખુબજ ઊંડાણ પૂર્વક વાત કરી તથા विद्यार्थीने, क्षवन क्षववा भाटेना પાંચ સિદ્ધાંત જેવા કે જીવનમાં અગત્યતા, સખત પુરુષાર્થ, આળસ રાખવી નહીં, વ્યસન થી દૂર રહેવું અને ભગવાન ઉપર શ્રદ્ધા રાખવા અંગેના સિદ્ધાંતો ઉપર માર્ગદર્શન આપ્યું હતું

Woman's day Celebration at S N Patel Institute of Technology & Research Centre, Umrakh on 6th March, 2020.





Mechanical Engineering Department of
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a one-day industrial visit for 2nd year / 4th semester students on
18th January 2020 in Bharkadevi Ice-cream Factory, Nandida Road, Bardoli.





Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a one-day industrial visit for 3rd year/6th-semester students on 18th January, 2020 in Surat District Co-operative Milk Producers' Union Ltd (SUMUL), Surat.









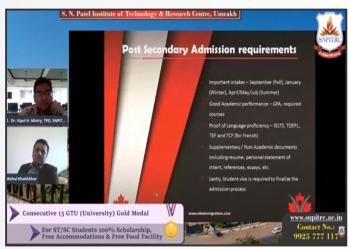
Mechanical Engineering Department of
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a one-day industrial visit for 3rd-year/6th-semester students on
24th January 2020 in Bharkadevi Ice-cream Factory, Nandida Road, Bardoli.





Training & Placement cell along with the Electronics and Communication Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a webinar on "Study and Immigrate to Canada" on 19th June 2020. The webinar was delivered by Mr. Mehul Khakhkhar, Managing Director and RCIC, Vibe Immigration Services Inc.





Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh celebrated World Environment Day on 5th June, 2020





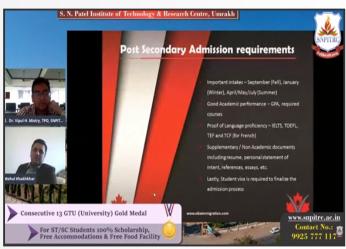
Mechanical Engineering Department of
S. N. Patel Institute of Technology & Research Centre, Umrakh
has organized a one-day industrial visit for 3rd-year/6th-semester students on
24th January 2020 in Bharkadevi Ice-cream Factory, Nandida Road, Bardoli.





Training & Placement cell along with the Electronics and Communication Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh has organized a webinar on "Study and Immigrate to Canada" on 19th June 2020. The webinar was delivered by Mr. Mehul Khakhkhar, Managing Director and RCIC, Vibe Immigration Services Inc.





Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh celebrated World Environment Day on 5th June, 2020





Shri Sitarambhai Naranjibhai Patel Institute of Technology and Research Centre, Umrakh affiliated with Gujarat Technological University (GTU) organized a webinar on "Meditation for Mental well-being & Success" on 29th September, 2020.





Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh conducted a hands-on workshop on Vertical Machining Centre (VMC PX-20) on 20th February, 2020.





Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh conducted a hands-on workshop Vertical Machining Centre (VMC PX-20)" on 28th February, 2020.



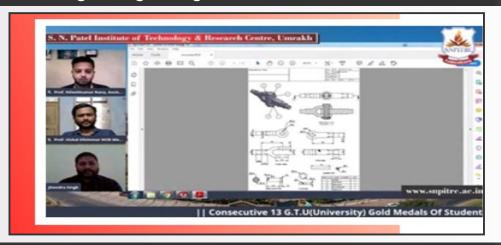


Mechanical Engineering Department of S. N. Patel Institute of Technology & Research Centre, Umrakh conducted a webinar on "IEC ABHIYAN COVID -19" on 17th October 2020.





The Department of Mechanical Engineering organized an Expert Lecture on "Introduction to 3D CAD/CAE Software: SolidWorks" on 14th May, 2020 as the subject Computer Aided. Design and Machine Design & Industrial Drafting by SNPIT&RC, Umrakh speaker was Mr. Jitendra Singh: Sr. Application Engineer, SOPAN Institute of Engineering & Design. This Webinar was live and is available on YouTube.



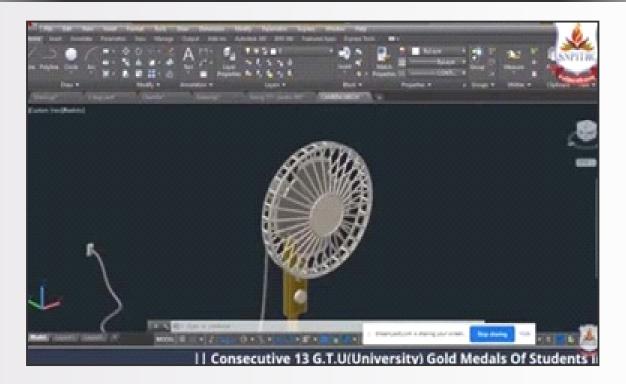
1.The Department of Mechanical Engineering organized an Expert Lecture on "Entrepreneurship Development" by SNPIT&RC, Umrakh on 19th May, 2020. The speaker was Mr. Amit Yadav: CEO, of Dechcept Private Limited. The Webinar was live and is available on YouTube.



2020

The Department of Mechanical Engineering organized an Expert Lecture on "Introduction to AutoCAD" by SNPIT&RC, Umrakh.

The speaker was Mr. Umang Dholakiya: CAD Trainer, Khodiyar CAD Centre India Pvt. Ltd.
This Webinar was live and available on YouTube on 26 May 2020



The Department of Mechanical Engineering organized an Expert Lecture on "Introduction to AutoCAD Fusion 360" by SNPIT&RC, Umrakh.

The speaker was Mr. Darpan Vaghasiya: CAD trainer, Khodiyar CAD Centre.

This Webinar was live and is available on YouTube on 1st June, 2020.

