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NIRMA UNIVERSITY
INSTITUTE OF TECHNOLOGY
NAAC ACCREDITED 'A+' GRADE

INSTITUTE OF TECHNOLOGY

CONTENTS

INSTITUTE NEWS

MOU | ITNU |

Electronics & Engineering Department, ITNU signed an MoU with Finecure Pharmaceuticals Ltd. on November 23, 2021,for cooperation in different activities like Collaborative Projects, Training / Knowledge Transfer, Research / Consultancy Projects, Executive Development Programme for Finecure Executives, sharing laboratories of NU for Finecure for research

MOU | IT | FINECURE PHARMA

MOU | IT | L&T

The Civil Engineering Department signed an MoU with Larsen &Toubro Limited on October 26, 2021 for specialised course for BTech in Construction Technology for the employees of L&T Construction

MOU | IT | AZURE

To establish collaboration between key stakeholders of Azure and faculty of ITNU (Computer Science & Engineering Department)Computer Science Engineering Department signed an MoU with Azure Knowledge Corporation Pvt. Ltd. on September 6, 2021 with an aim to plan, research, develop, deploy and maintain business ready and customised solutions in the areas of mutual interest focusing on the application of Data Science in the domain of Machine Learning, AI, VR, AR, Analytics and Computer Vision.

RECOGNITION

- The institute was granted NBA accreditation extension for one year in Tier I for the UG programmes of BTech in Electronics & Communication Engineering, Mechanical Engineering, Chemical Engineering and Computer Science & Engineering up to June 30, 2022

- Revised the nomenclature of the Department Instrumentation & Control Engineering to Department of Electronics & Instrumentation Engineering.

RANKINGS

The institute received laurels from different accrediting and prestigious bodies:

- Ranked 153 by National Institutional Ranking Framework (NIRF) by the Ministry of HRD, Government of India.
- Ranked 4th among the Top Leading Engineering Colleges of Super Excellence in India and placed at first position among the Top Engineering Colleges ranked by the Gujarat State as per the Competition Success Review.
- Ranked 41st among Engineering Colleges in India, 16th Rank among Private Engineering Colleges in India by The Week-Hansa Research Survey-2021:Best Colleges
- Ranked 15th among the best Colleges of India Engineering College in Private category by The India Today Special issue 25th Annual Survey.
- Ranked 4th under Top 125 Private Engineering Institute Rankings 2021, 2nd in West Zone 11th in Overall Ranking under the category Top 175 Engineering Institute Rankings 2021 by Times of India Ranking 2021.
- The Institute of Technology received 4th Rank in 'Top Leading Engineering Colleges of Super Excellence', and 1st Rank in Gujarat under the CSR-GHRDC Engineering Colleges Survey 2021.
- 5th among Top 125 Engineering Colleges Ranked under Faculty, Research, Consultancy, EDP & other programmes
- 4th among Top 125 Engineering Colleges Ranked under Placements, USP, Social Responsibility, Networking & Industry Interface

INSTITUTE ACTIVITIES

BTech (Construction Technology) for the employees of L&T Construction Ltd.

As a part of an MOU signed between Nirma University and L&T a BTech Programme for the employees of L&T Construction Ltd. Department of Civil Engineering, Department of Mechanical Engineering and Department of Electrical Engineering are jointly offering this BTech (Construction Technology) Programme for seven semesters. The targeted participants for the same are diploma holders of L&T. The first batch will be starting from the next academic term beginning from January 2022. This BTech Programme will be conducted in blended mode – Online and Offline both. The candidates from L&T will be benefitted as this programme will fill the knowledge gap as they required in industry operations. It is a great opportunity for Nirma University as well to strengthen the industry-academia relations in the core branches of engineering. The launching ceremony for the course was held by L&T through online mode on 30 October 2021.

A **training program** on "Programming in C" was organized under CCE, coordinated by Dr. Jatin M. Dave, Prof. Pooja Shah, and Dr. Bhavin Shah from14th August to 11th September, 2021.

Dr. Sudarshan Kurwadkar, Professor in the Department of Civil and Environmental Engineering, California State University, USA, visited Nirma university campus on November 19-20, 2021. He held interactive sessions with the Head of the Department, Civil Engineering, as well as the faculty of the Department and delivered an informative talk on 'The occurrence and monitoring of contaminants of emerging concern'.

Civil Engineering Department organized a **Professional Development Course** on Building Engineering – Construction, Waterproofing, Maintenance and Repairs for managers of Pidilite Industries Ltd, Mumbai. The module 1 of the training programme for Pidilite Managers was

conducted from June 02, 2021 to August 14, 2021 and the Module 2 of the training programme commenced from September 22, 2021.

An **lecture series** was organized by the **Centre of Excellence in Data Science** established at the Department of Computer Science and Engineering, in collaboration with SUNY Binghamton University, USA. Every month, one session was conducted by alumni from either side.

→ Dr Hongya Lu, Machine Learning Engineer, Apple Inc.(Real-Time Stencil Printing Process Enhancement Using Online Learning and Guided Search Optimization),

→ Mr Nisarg Vyas, Founder and CEO, Info cusp Innovations Pvt. Ltd.,(Applying Deep Learning Techniques to Reinforcement Learning Problems)

→ Dr Duaa M Serhan, Operations Research Consultant at American Airlines (A data driven approach that balances the crew schedule operability and cost) and

→ Mr Harshal Trivedi, CEO-Tusker AI Limited(Revamping End-to-End Business Verticals with AI-Automation) were the illustrious speakers.

Iowa State University's Associate Dean of Research Dr Arun Somani, visited the ITNU campus on 10th November 2021. He provided counselling on higher studies and internship at IOWA state university.

A lecture on 'SoC Design' was organized under the ARM Tech-Talk series at the Department of Electronics & Communication Engineering, Institute of Technology, Nirma University on October 08, 2021.
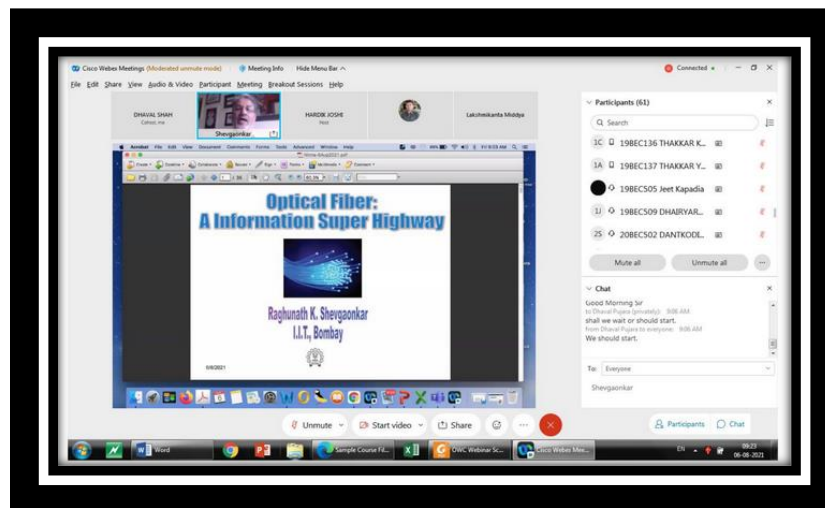
The Department of Electronics & Communication Engineering organized an online **workshop** in collaboration with Vodafone Idea Foundation on "Fundamentals of Artificial Intelligence and Machine Learning" from October 2-4, 2021.

The department of Electronics and Communication Engineering organized a two-day **International Webinar** on "Testing and Verification of VLSI Design" from September 3-4, 2021.

The department of Electronics and Communication Engineering organized a five-day **National Webinar** on "Rietveld Refinement of XRD Data" from September 13-17, 2021.

The department of Electronics and Communication Engineering organized a GUJCOST sponsored two-day **National Webinar** on "Optical Wireless Communication: Challenges and Opportunities" from August 06-07, 2020.

The Electrical Engineering Department organized a **national webinar** on "Emerging Trends in Electric Motors for Electric Vehicle Applications" sponsored by Gujarat Council on Science & Technology (GUJCOST) from September 23-24, 2021 with an aim to give exposure on trending technologies in electric motors in electric vehicles.

A two-day **workshop** on "Distribution System Analysis" was organized by Department of Electrical Engineering with Centre for Continuing Education programme, Nirma University, Ahmedabad from 18 – 19 September 2021.

Two days online **training** programme on "iQR PLC" was conducted by the ATC Mitsubishi Electric India Pvt. Ltd., at Department of Electronics & Instrumentation Engineering Institute of technology from 29-30 October 2021.

One day online **training** programme on "GOT 2000" was conducted by the ATC Mitsubishi Electric India Pvt. Ltd., at Department of Electronics & Instrumentation Engineering on 7th August, 2021.

The Department of Electronics and Communication Engineering, organized a **Lecture Series** from September 27 to October 06, 2021, in the course of Microwave and Antenna Engineering, for the students of Semester-VII, on the topic "Aperture and Reflector Antennas".

The Department of Electronics and Communication Engineering organized **Collaborative Teaching sessions** for the students of MTech, Semester-I. A module on, "Programming Languages for Embedded Systems" was delivered by Mr. Nirav Shah, Research Scientist, Intel Labs, Bangalore.

The Electronics and Communication Students' Organization (ECO) organized an **interactive session** for the students of BTech Semester VII, EC on September 21, 2021 with the Alumni of the Department. Shivani Chaudhari (ARM), Vinayak Sharma(IBM Infineon –Cypress), Ashutosh Bhargava(Cadence), Abhishek Raj(QUALCOMM), Tejas Mutthal (NXP Semiconductor) and Nikunj Moradiya (Mentor Graphics, NVIDIA) interacted with the present students.

The Department of Electronics & Communication Engineering organized a **counselling session** for preparing the students for the placement in E-infochip Ltd. on September 7, 2021 for the students of BTech EC, Semester VII.

The Department of Electronics and Communication Engineering organized **collaborative teaching** by Dr. Nihar Mohapatra, Professor, Department of Electrical Engineering, IIT, Gandhinagar for the course 2EC501 – VLSI Design for the students of Semester V, EC from August 12 to September 30, 2021.

The Department of Electronics and Communication Engineering organized a Three-day 'Online **Orientation Programme'** for the students of M.Tech. Semester-I (Embedded System & VLSI Design) from August 05-07, 2021.

Sessions by International Experts

Prof. Sudarshan Kurwadkar, Professor, Department of Civil and Environmental Engineering, California State University, Fullerton delivered talk on "Fate and Transport of Emerging Micropollutants" on November 20, 2021.

Dr Arghya Kusum Das, Assistant Professor, University of Wisconsin, Plattville, USA and, Dr Gokarna Sharma, Associate Professor, Kent State University, OH, USA delivered Collaborative sessions on "MultiCore Computing and Open Power Architecture" from November 15-19, 2021.

Dr Rikin Thakkar, Department of Electrical and Computer Engineering at the University of Maryland, College Park (UMD) delivered an expert lecture on "Next generation communication" on October 30, 2021.

Prof. Donguk CHOI, President, Asian Concrete Federation and Professor, School of Architecture and Design Convergence, Hankyong National University, Korea delivered an expert talk on "Cement, concrete, and use of recycled materials in concrete" & "Sustainability related to concrete and concrete construction" on October 29, 2021.

Dr. Amit Kakkad, Professor, University of San Diego, CA, USA delivered an expert talk on Ten lectures on "Plant Design, Economics and Project Management (PDEPM) " from September 13 to October 29, 2021.

Dr. Joun Carlos, Associate Professor, Public University of Navarra, Spain delivered Foreign Professors Lecture(s) & Collaborative Teaching on "Microstrip Antennas" from October 7-20, 2021.

Mr Jignesh Panchal, ASIC/FPGA Verification Engineer, ARM, Sweden delivered Collaborative Teaching on "Perl Programming" from September 13 to October 25, 2021.

Dr Jorge Teniente Vallinas, Associate Professor, Department of Electric, Electronics and Communication Engineering, Public University of Navarra (UPNA), Spain, delivered Collaborative sessions on "Aperture and Reflector Antennas" from September 27 to October 06, 2021.

Dr Sudhagar Nagarajan, Associate Professor, Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University, USA delivered an expert talk on "Fundamental of Photogrammetry and LIDAR & Applications and Global Positioning System (GPS) & Applications" during September 21-24, 2021.

Dr Sudarshan Kurwadkar, Professor, Department of Civil and Environmental Engineering, California State University, USA delivered a series of expert talks on various topics like "Sludge Disposal & Treatment" on September 18, 2021, "Wastewater Treatment Concept & Practical Aspects of Treatment" on September 17, 2021,"Sewerage System Design" on September 16, 2021, "Design of Water Treatment Plant" on September 06, 2021 and "Water Treatment Overview & Practical Aspects of treatment" on September 04, 2021.

Mr Vishal Mehta (Alumni), NVIDIA, Zurich, Switzerland delivered Expert Lecture on "GPU Architecture" on September 21, 2021.

Dr. Ramesh S. V. Teegavarapu, Professor and Graduate Program Director and Leader of Hydrosystems Research Laboratory (HRL), Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University, USA delivered an expert talk on "Fundamental of Geographical Information System (GIS) and Applications" from September 14-16, 2021.

Dr. Hongbo Su, Associate Professor, Department of Civil, Environmental and Geometrics Engineering, Florida Atlantic University, USA delivered an expert talk on "Fundamental of Remote Sensing" from September 07-09, 2021.

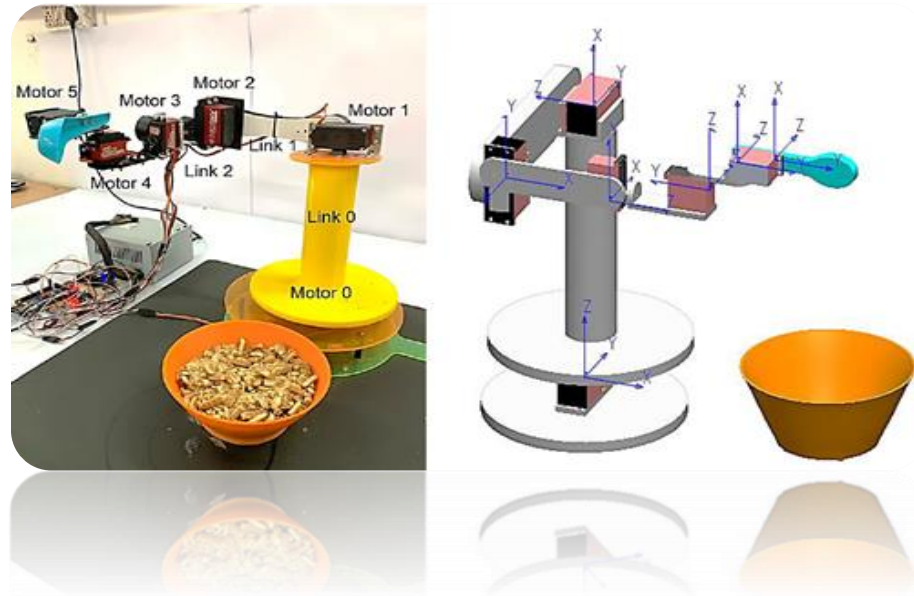Dr. Anand D Hiroji, Assistant Professor (Hydrography), Division of Marine Science, School of Ocean Science and Engineering, University of Southern Mississippi, USA delivered an expert talk on "Application of Total station for Hydrographic Sensor integration: A case of Dimensional Control Surveys" on September 06, 2021.

Sessions by National Experts – Click here

FACULTY CORNER

Research Article and Research Project by Faculty

Dr Reena Trivedi (SoE, ME), Prof. Priyam Parikh (IDNU), Dr. Jatin Dave (SoE, ME) and Dr Keyur Joshi (Ahmedabad University) have received a grant of 16.5 lakh INR from GUCOST for development of a vision based multi-degree of freedom feeding serial manipulator for the patients suffering from neurological disorders and infectious diseases (COVID-19). The aim of the project is to design and develop a low-cost feeding assistive robot for the people suffering from various types of neurological disorders as well as for specially abled people. The robot is digitally fabricated using FDM 3D printed and Co2 laser machine. Open MV7 camera is used for face detection of the patient. Graphical user Interface is designed in MATLAB, which works as a teach pendent to find the intermediate points in the trajectory. Product of Exponential method is utilized for performing forward kinematics and derivative based algorithm is used to perform Inverse Kinematics. Positional control of servo actuators are obtained using Genetic Algorithm optimized fractional order PID controller, and finally the trajectory planning is done using linear segment

parabolic blend method. The robot is successfully tested on specially tested people without wasting food.

NIRMA LIMITED CHAIR PROFESSOR

Dr Sanjay Patel is appointed as Nirma Limited Chair Professor in Chemical Technology to promote research and academic work in the area of Chemical Technology. The Chair would take up sponsored research projects in the concerned area and publish papers in reputed journals. Dr. Patel will also carry out research projects for Nirma Ltd sponsored by the organization.

PATENT

An Indian Patent (Application No. 381174) entitled "An improved process for the preparation of biodiesel from Jatropha oil" was granted to Dr M H Joshipura and Dr A P Vyas on 2nd November 2021. The patent was an outcome of the GUJCOST funded project.

PATENT

The design patent of Dr Sudeep Tanwar Titled, 'Big- Data in Supply Chain Analysis Using Block chain' is published by the Patent Office, Government of India with Publication Number: 48/2021 on 26th November 2021

Ph.D Honors

Ph.D degree Awarded to

Faculty Name : Dr. Jose Thankachan

Title of Thesis : Multiport Solar-assisted SRM Drive for EV/HEV Applications with Integrated Driving/Charging Capabilities"

Name of Guide : Dr. S P Singh, Indian Institute of Technology, Roorkee
Indian Institute of Technology Roorkee

Faculty Name : Dr. Chintan R Mehta

Title of Thesis : Investigations for Transient Stability Enhancement of Multi-machine Power System Integrated with Large Scale Renewable Energy Sources Using Modified Series Resonance Type Fault Current Limiter"

Name of Guide : Dr. S C Vora

University : Nirma University

Faculty Name : Prof. Nikita Chokshi

Title of Thesis : Catalytic Ozonation for Wastewater Treatment

Name of Guide : Dr. J.P.Ruparelia

University : Nirma University

Faculty Name : Prof Pooja Shah

Title of Thesis : Oil Spill Detection using SAR Data: Feature-based to Deep Learning Approaches

Name of Guide : (Late) Dr. Tanish Zaveri and Dr. Rajkumar

University : Nirma University

Faculty Name : Prof Vivekkumar Prasad

Title of Thesis : SLAMMP Framework for Efficient Resource Monitoring and Prediction at an IaaS Cloud
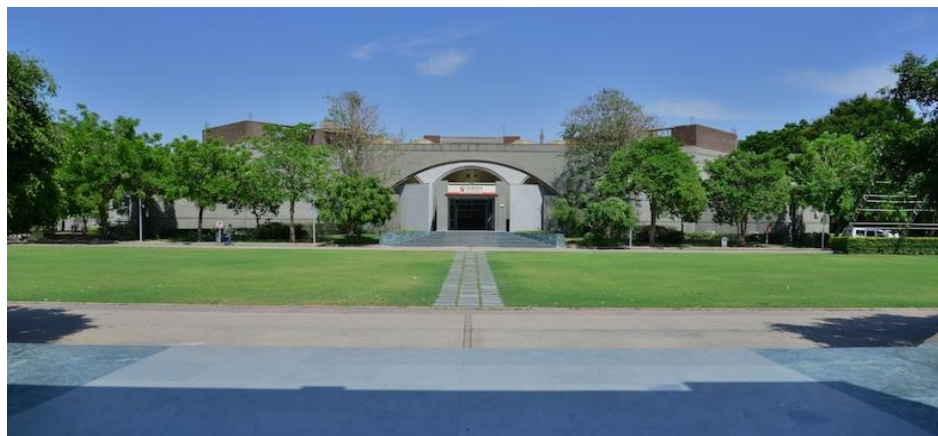
Name of Guide : Dr. Madhuri Bhavsar

University : Nirma University

Research Projects of Faculty Members Click here

Publication by Faculty Members Click here

Conference Attended by Faculty Members Click here

STUDENTS' CORNER

National Champions ROBOCON 2021

Team Nirma Robocon, continuing the legacy, won the National Robocon Championship 2021 9th time in the history of Robocon since 2002. The National event was organized by Doordarshan in association with IIT, Delhi through online mode due to the pandemic. Competing, 63 teams from various renowned Engineering Institutes in India, Team Nirma stood first. The team from Nirma University was the only team in India that completed the theme and that too in just 54 seconds time.

The International Robocon, 2021 was hosted by China through online mode on December 12, 2021 wherein the Team Nirma Robocon secured 7th rank out of 21 teams from different countries and also won Nagase Award for excellence. The winner of the international Robocon, 2021 was Indonesia that completed the full game in 40 seconds while Team Nirma completed the full game in 45 seconds. Team Nirma has secured the highest International Rank amongst all the Indian teams who have represented the country so far in all previous competitions since last 20 years.

Team Stallion won ESVC 2021

The "Team Stallions" (Nirma SAE Collegiate Club) representing Nirma University has won following awards in ESVC, 2021 (Electric Solar Vehicle Challenge) organized by ISIE India at Chandigarh on December 24-28, 2021 and cash awards of more than Rs.1.50 lakhs. 22 teams from different parts of the country participated in the competition.
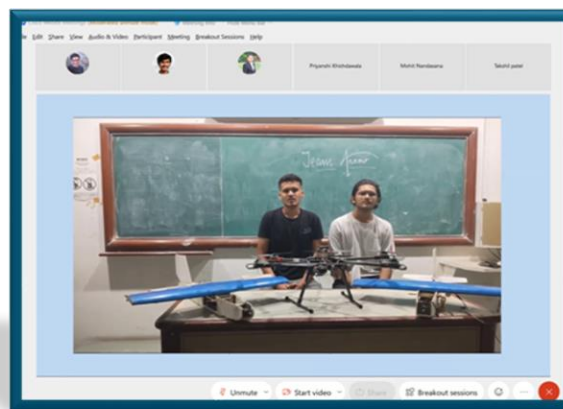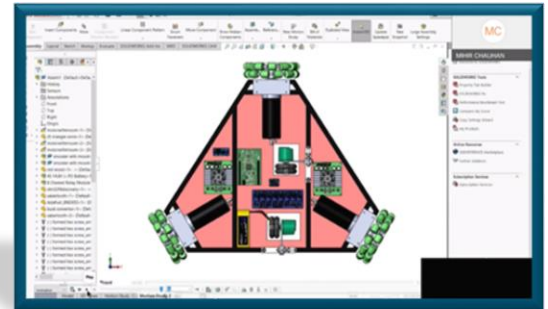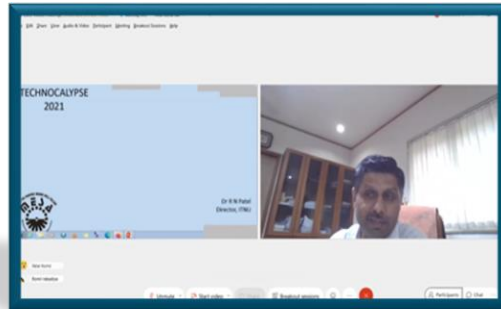
1. Overall Best

2. Best Endurance (Racing)

3. Best B Plan and Cost

4. Future Award

5. Best Acceleration

6. Best Hill Climb

7. Best Autonomous

8. Best Off Road

Aero Design Challenge, 2021

Team Arrow participated in SAE India Southern Section Aero Design Challenge, 2021 in the Micro Class category. The competition was organized by SAE India Southern Section on an online platform in which more than 30 teams from prestigious colleges across the nation including NIT, Agartala, Vellore Institute of Technology, BITS, VIT Pune, SRM University, Bannari Amman Institute of Technology competed for the Micro Class Category. The team bagged 1st and 2nd position in Overall Performance Award and Best Design Report Award.

- Team of the students of Institute of Technology, Nirma University participated in Robofest 2.0 competition organized by GUJCOST and won the Proof of Concept stage with award money of Rs 200000/- in Four Legged Robot category on August 24, 2021. The team is selected for the final of the competition.

- The Mechanical Engineering Students' Association (MESA) hosted Technocalypse, 2021 on 18th -19th September 2021. MESA has been hosting this event since 2011 as corporate social responsibility (CSR) activity under the name of Autocalypse and Robocalypse where students of various schools from Gandhinagar and Ahmedabad were invited to the campus with the main aim of enlightening the school students about the field of automobile and robotics.K D Ambani School from Jamnagar and P V Modi School from Jamnagar won the Best Idea Award in Robocalypse and Autocalypse respectively and were facilitated with the trophy and cash prize of Rs 1500/-.

- An industrial visit to Ahmedabad Textile Industry's Research Association (ATIRA), Ahmedabad was arranged for the students of Semester-I, M .Tech (CAD/CAM) on 30th November 2021.

@ ATIRA

- Mr. Yaman Parmar student of EC department secured First position in event "Azadi Ka Amrit Mahotsav", Online Patriotic Solo Song Competition "Deshraag" organized by the NSS Unit and Students Welfare Board, Nirma University, on August 13, 2021.
- Mr. Khush shah of EC department was Country winner and achieved 4th rank at the global level on project 'REC governance using AI ' organized by Intel® AI Global Impact Festival 2021.
- Chemical Engineering Students' Association (ChESA) arranged an Alumni Meet On Foundation Day, October 4, 2021 for BTech 3rd, 5th, 7th semester students by Mr. Parin Shah, currently working as R&D head at P.K. Enterprise and is working on anti-corrosion and flame retardant coating systems. He is also working as Principle Consultant for Biodegradable Polymer development at Krish Biotech, located in GIDC Vatva
- Chemical Engineering Students' Association (ChESA) arranged a lecture on "Career Opportunities After Engineering" by Mr. Rohan Garg (IIM-C Alumnus and Founder of ICE GATE Institute) on Dec 18, 2021
- Jayvirsinh Atodariya, a student of Chemical Engineering Department had participated in the event Mentoring YUVA (organised by the PMO) in August which was of 1 week duration. He is also participating in the Campus Ambassador program (by IMUN) which is still going on.
- IEI Students' Chapter, Civil Engineering Department, in collaboration with The Institution of Engineers (India), Gujarat State Centre and Organisation of Civil Engineering Students (OrCES) organized state level technical quiz competition "Civista" for the Civil Engineering students of diploma and degree engineering colleges of the state of Gujarat, India on 14th August 2021 (Saturday). Cash prize of Rs. 1000/-, Rs. 750/- and Rs. 500/- was given to 1st (Mr. Gaurav Bambhania, Parul Institute of Engineering & Technology), 2nd (Karshanbhai Kanjariya, Birla Vishwakarma Mahavidyalaya) and 3rd winner (Panth Shah, Nirma University), respectively.
- IEI Students' Chapter - Civil Engineering Department, organized a webinar on "Essentials of Startup and Business Development" on September 18, 2021. It was conducted by three expert speakers who are also an alumni member of civil engineering department, Mr Pranshu Jain, Director, PwC India, Ahmedabad, India, Mr Sanil Bhatia, Founding leader - Pharmaceuticals Business, Udaan.com, Bangalore, India and Mr Abhishek Gupte, Doctoral student, Leonard B. Stern School of Business, New York University, New York, US.
- The IGBC Student chapter, OrCES and Department of Civil Engineering arranged an online webinar on "Gujarat's Initiatives in Climate Change Adaptation and Mitigation" on September 27, 2021.Expert lecture was delivered by Mr. Shwetal Shah, Technical Advisor, Climate Change Department, Government of Gujarat.
- Knowledge Sharing Session on "MATLAB - Accelerating the pace of Engineering" was organized by IEI Students' Chapter established at Civil Engineering Department, on October 30, 2021. The session was conducted by Ms. Mauli Bhatt (18BCL008),

student of Sem. VII, Civil Engineering Department, Institute of Technology, Nirma University.

- ICI Students Chapter, Department of Civil Engineering, organized an Expert Webinar Session On Superpozz p500 Benefits for Concreting by Well-known speakers Mr. Bankat Mandhania (Director - Ashtech India Pvt Ltd.) and Mr. Bhushan Deshpande (Vice President -Marketing Ashtech India Pvt Ltd.) on October 19, 2021.
- Mr. Maharsh Shah, a Computer Science Engineering student got incubated at NASSCOM 10000 Startups for NeoFanTasy - a blockchain based fan engagement platform for sports, media and entertainment.
- Samariya Darsh and Rudransh Vyas, both Computer Science Engineering students reached Top 12 finalists in TVS Credit e.p.i.c. IT challenge Season 3 held in Chennai during November 2021. Twelve thousand students participated in the competition and the team from ITNU made it to the final after successfully clearing 3 rounds.
- Kush Bhatt Computer Engineering students completed Cloud Engineering track and data science-machine learning track in 30 days of Google Cloud Program 2021 at Google Developer Student Clubs, Nirma University.
- Mr. Prithvi Sharan, Computer Science Engineering student published a book Friends Beyond... (released on 22nd March 2021) and he is nominated for Tck Publishing presented 2022 Reader's Choice Award.
- Het Shah and Manasi Shah students of IT engineering branch, under the guidance of Dr Sudeep Tanwar at Department of Computer Science and Engineering published "Blockchain for COVID-19: a comprehensive review" in Personal and Ubiquitous Computing, https://link.springer.com/article/10.1007/s00779-021-01610-8, IF-3.006
- Jyot Makadiya, student of Department of Computer Science and Engineering has won the openEDS 2021 deep learning research challenge track 1 3d eye semantic segmentation and placed 3rd on the leaderboard. The team (NainaNet) members included Jyot Makadiya along with Dr. Usman Tariq from American University of Sharjah and Dr. Abhinav Dhall from IIT Ropar. The contest concluded on in August 8,2021 was hosted on EvalAI and sponsored by facebook-research.
- BTech student Sidharth Shyamsukha , and MTech student Farnazbanu Patel, under the guidance of Dr Pronaya Bhattacharya, and Dr Sudeep Tanwar, published a conference paper PoRF: Proof-of-Reputation-based Consensus Scheme for Fair Transaction Ordering in 2021, 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 10.1109/ECAI52376.2021.9515090
- M.Tech student Ms Farnazbanu Patel under the mentorship of Dr Pronaya Bhattacharya , and Dr Sudeep Tanwar, published a conference article Block6Tel: Blockchain-based Spectrum Allocation Scheme in 6G-envisioned Communications in 2021 International Wireless Communications and Mobile Computing (IWCMC), Harbin, China 10.1109/IWCMC51323.2021.9498854

- B. Tech student Jainam Sanghavi, under the mentorship of Dr Pronaya Bhattacharya , and Dr Sudeep Tanwar, published a conference article Res6Edge: An Edge-AI Enabled Resource Sharing Scheme for C-V2X Communications towards 6G, in 6G-envisioned Communications in 2021 International Wireless Communications and Mobile Computing (IWCMC), Harbin, China
- Ms. Divya Mahur, a student of Department of Computer Science and Engineering was ranked 28th in the domain of design among 4, 55,534 candidates who appeared for Embark ESAT by Upraised, National level.
- Mr. Rajesh Gupta, a Full-Time Research Scholar under the guidance of Dr. Sudeep Tanwar has published a paper titled "B-IoMV: Blockchain-based onion routing protocol for D2D communication in an IoMV environment beyond 5G" in Vehicular Communications, Elsevier (SCI, Impact Factor: 6.910) https://doi.org/10.1016/j.vehcom.2021.100401.
- Mr. Rajesh Gupta, a Full-Time Research Scholar along with B. Tech Students Het Shah and Saiyam Shah under the guidance of Dr. Sudeep Tanwar has published a paper titled "Fusion of AI Techniques to Tackle COVID-19 Pandemic: Models, Incidence Rates, and Future Trends" in Multimedia Systems, Springer (SCI, Impact Factor: 1.935) https://doi.org/10.1007/s00530-021-00818-1
- Mr Rajesh Gupta, a full time Research Scholar is in the list of Top 2% of scientists across the globe published by Stanford University. [https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3]
- Mr Rajesh Gupta, a Full-Time Research Scholar under the guidance of Dr. Sudeep Tanwar published a research article titled in IEEE Transactions on Green Communications and Networking. [https://ieeexplore.ieee.org/abstract/document/9531961]
- Mr. Rajesh Gupta, a Full-Time Research Scholar under the guidance of Dr. Sudeep Tanwar published several research papers namely, "When Block chain Meets Edge Intelligence: Trusted and Security Solutions for Consumers", "Block chain-based Data Dissemination Scheme for 5G-enabled Softwarized UAV Networks, and "Block chain-based Data Dissemination Scheme for 5G-enabled Softwarized UAV Networks" in IEEE Network Magazine (SCI, WoS, Impact Factor: 10.693). [https://ieeexplore.ieee.org/abstract/document/9579400].
- Mr. Rajesh Gupta, a Full-Time Research Scholar along with BTech students under the supervision of Dr Sudeep Tanwar has published a paper titled "A survey on artificial intelligence techniques for chronic diseases: open issues and challenges" in Artificial Intelligence Review, Springer (SCI, Impact Factor: 8.139) https://doi.org/10.1007/s10462-021-10084-2.
- Mr Rajesh Gupta, a Full-Time Research Scholar along with BTech students under the supervision of Dr Sudeep Tanwar has published a paper titled "Deep learning-based malicious smart contract detection scheme for internet of things environment" in

Computers & Electrical Engineering, Elsevier (SCI, Impact Factor: 3.818) https://doi.org/10.1016/j.compeleceng.2021.107583.

- Ms Riya Kakkar and Mr Rajesh Gupta , the Full-Time Research Scholars have published a paper titled "Coalition Game and Blockchain-Based Optimal Data Pricing Scheme for Ride Sharing Beyond 5G" in IEEE Systems Journal (SCI, Impact Factor: 3.931) 10.1109/JSYST.2021.3126620.

- BTech Semester VII students Vishwam Bhavsar and Hemant Bhojwani along with faculty guide Dr Manish Patel and Dr Ruchi Gajjar presented a conference paper on "Image Resolution Enhancement Using Convolutional Auto encoders with Skip Connections" organized by Integrated Test Range (ITR) in association with IEEE Kolkata Section, IEEE Bhubaneswar Sub-section and IEEE Communication & Computer Societies during August 5-6,2021.

- BTech Semester VII students Khyat Patel and Manan Jain along with faculty guide Dr Manish Patel and Dr Ruchi Gajjar present a conference paper on title "A Novel Approach for Change Detection Analysis of Land Cover from Multispectral FCC Optical Image Using Machine Learning" organized by Integrated Test Range (ITR) in association with IEEE Kolkata Section, IEEE Bhubaneswar Sub-section and IEEE Communication & Computer Societies during August 5-6, 2021.

- BTech Semester VII student Yaman Parma secured First position in event 'Azadi Ka Amrit Mahotsav', Online Patriotic Solo Song Competition "Deshraag" organized by the NSS Unit and Students Welfare Board, Nirma University, on August 13, 2021.

- BTech students Abhay Sharma & Shruti Airan, along with faculty guide Dr Dhaval Shah Presented a conference paper on title "Designing C library for MODBUS-RTU to CANBUS and MODBUS-TCP IOT Converters" during 2nd International conference on Electronics and sustainable communication systems (ICESC – 2021) from August 4 to 6,2021.

- PhD Student Dipesh Panchal presented a paper along with faculty guide Dr Amisha Naik on "Comparative Analysis of Static Bias Methods for basic Differential Amplifier" at the 4th International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2021), SVNIT, Surat during November 17-18, 2021.

- BTech Semester VII students Rhea Sansowa & Vincent Abraham presented a paper along with faculty guides, Dr Manish I. Patel and Dr Ruchi Gajjar titled "OCR for Devanagari Script using a Deep Hybrid CNN-RNN Network" at the 4th International Conference on Emerging Technology Trends in Electronics, Communication, and Networking organized by SVNIT, Surat during November 17-182021.

- BTech Semester VII students Amita Mohta & Ishan Gupta presented a paper along with faculty guide Dr Ruchi Gajjar and Dr Manish I. Patel titled "CNN Based Leaf Wilting Classification Using Modified ResNet152" in 4th International Conference on Emerging Technology Trends in Electronics, Communication, and Networking organized by SVNIT, Surat, from November17-18,2021.

- BTech Semester VII students Jeenang Shah &Harshil Patel presented a paper along with faculty guide Dr Ruchi Gajjar, Prof Dipesh Panchal, and Dr Manish I. Patel titled "Aspect Ratio Estimation for MOS Amplifier using Machine Learning" in IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing & Communication (AESPC-2021) organized at the School of Electronic Engineering, KIIT University, Bhuvneshwar from during November 26-28, 2021.
- BTech Semester VII students Eshan Saraogi & Giriraj Singh Chouhan presented a paper along with faculty guides Prof Dipesh Panchal, Dr Ruchi Gajjar and Dr. Manish I. Patel on "CNN Based Design Rule Checker For VLSI Layouts" in IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing & Communication (AESPC-2021) organized at the School of Electronic Engineering, KIIT University, Bhuvneshwar from November 26-28, 2021.
- BTech Semester VII Student Rashi Gautam, presented a paper along with faculty guide Dr Sachin Gajjar on the title "GUI Development for IRNSS Receiver" at the International Conference on Emerging Technology Trends in Electronics, Communication, and Networking (ET2ECN-2021), SVNIT, Surat during November 17-18, 2021.
- ISA student's chapter of EI department celebrated "Teacher's Day" on September 4, 2021. Faculty interaction with students took place during the event.
- ISA student's chapter of EI department organized online expert talk on "Into an Engineer's mind" - on the occasion of Engineer's day on September 15,   2021.
- ISA student's chapter Nirma University organized "Expert Talk on Design Thinking" on the occasion of Foundation Day Celebration on October 4, 2021. A webinar was conducted for the students to enrich their Design Thinking Skills. In this webinar the keynote speaker was Mr Sayantan Mukherjee who is a teacher, mentor and coach in the domain of innovation & entrepreneurship.
- ISA Students' Chapter Nirma University organized the ISA district 14 Felicitation ceremony on October 9, 2021. The event was graced by the presence of Dr Anil Sahasrabudhe, AICTE Chairman, and many esteemed ISA Professionals providing a good opportunity to network.
- Kathan Shah and Nitish Patel published a paper titled "Backtracking search optimization applied to solve short-term electrical real power generation of hydrothermal plant" in Engineering Optimization, Taylor & Francis in Aug 2021.

Innovative Initiatives

- As a part of the Community service course, 3rd Semester students of Chemical Engineering Department visited NGOs like Hiramani old age home, Hiramani Sandhya Jeeven Kutir, Adhyani foundation from October-2021 and carried out social activities like donating food and clothes to the needy, guiding elders about various online

- activities/services, feeding stray animals, donating blanket, essentials to the underprivileged.
- To celebrate Engineer's Day on September 15, 2021, the Organization of civil engineering students and Civil Engineering Department, organized an expert lecture on "Fundamental of Geographical Information System (GIS) and Applications" by Dr. Ramesh S. V. Teegavarapu, Professor, Florida Atlantic University, USA.
- IEI Students' Chapter of Civil Engineering Department celebrated Teacher's Day on September 06, 2021. As a part of Teacher's Day celebration, a sapling and greeting card was given to all the faculty & staff members of the Civil Engineering Department as a token of gratitude and respect.
- Department of Civil Engineering, under the Indian Concrete Institute Student Chapter organized an event Quiz-O-Mania'21 – A State Level Quiz on the Occasion of CONCRETE DAY on September 06, 2021. The event was organized for the undergraduate and postgraduate & professionals from civil engineering domain from all over Gujarat in which approximately 550 members participated. Thakkar Dhruv from Civil Engineering Department IT-NU was the top performer, Sagar Shah from CEPT University and Mihir Soni from Dharmsinh Desai University were the 2nd and 3rd runners up.
- ISA Students' Chapter of Electronics & Instrumentation Engineering Department Nirma University organized an event for the students of Prakash School for Mentally Retarded on 28th October 2021.
- A session on Introduction to Latex was delivered at Electrical Engineering Department by Dr. C R Mehta on 20 Sep 2021.
- A session on Demonstration and hands on experience of laboratory equipment was delivered at Electrical Engineering Department by Dr. S.C. Vora, Dr. A. Nimje, Dr. K. Bhattacharjee, Dr. S.K. Chauhan, Prof. P.N. Kapil, Prof. S.N. Jani, Prof. H. Amrolia, Prof. S.S Shah, Dr. A. Parida, Prof. S. Chatterjee, Dr. Mahesh Patel, and Prof. Vineet Chandran on 24 Sep 2021.
- Association of Computer Engineering Students (ACES) organized a "Book Drive" from August 19 to 21, 2021. Books collected during this drive were donated to Granthmandir- Library" situated at Sathamba village of Aravalli district.
- As a part of the Community service course, 3rd Semester students and 5th Semester D to D students of CSE carried out societal work at various places. Teaching children, donating food and clothes to the needy, guiding Elders about various online activities/services, feeding stray animals, distribution of clothes carried out at places like Hiramani Sandhyajivan Kutir, Sheel Foundation, Spread Smiles NGO, Kartavya NGO, Manav Jan Jagaran Seva Samiti, Mandli, Sarvodaya Group Trust, Shri Narottambhai Chauhan seva sankul etc.

- Association of Computer Engineering Students (ACES) conducted a poster making competition on Engineers' day on September 9, 2021 with the theme "Engineer as an Artist". The competition invited various art expressions from faculties and students of the Computer Science and Engineering department.

- Association of Computer Engineering Students (ACES) conducted teachers' day celebration on September 9, 2021. Faculty Members and students of the CSE department participated in this online event.
- Association of Computer Engineering Students (ACES) conducted a one day hands on workshop by Dr. Vijay Ukani under "Campus Guru" event series. The workshop titled "Understanding network behind the scene" was specially organized for the students of M.Tech. CSE Information and Network Security semester I.
- Association of MCA students (AMS) has successfully organized an event 'Code Chasers' on August 20, 2021 through virtual mode.
- Association of MCA students (AMS) has successfully organized an event "Quizzy-Mind" on October 4, 2021 through online/offline mode on topics like consisting Quant, Logical Reasoning, Core CS and debugging.
- Computer Society of India (CSI) student branch, Institute of Technology organized an alumni meet on November 14, 2021 for first, second and third year students, where the alumni Purvansh Shah, Ashay Nayak, Nandit Pujara and Priya Roy shared their experiences and the importance of competitive programming .
- Computer Society of India (CSI) student branch, Institute of Technology organized an interactive workshop on October 16, 2021 with Mr. Viral Parmar where students sought opportunities to get acquainted with the significance of Cyber awareness.
- Computer Society of India (CSI) student branch, Institute of Technology organized an Event on Machine Learning Project and NLP basics on October2&3, 2021. The participants from the 1st, 2nd and 3rd year of all streams attended the event.
- Computer Society of India (CSI) student branch, Institute of Technology organized an Advance Deep Learning Lecture series on September 25 & 26, 2021.
- Computer Society of India (CSI) student branch, Institute of Technology organized a Deep Learning Lecture series on September18 & 19, 2021. 12 participants from the 1st, 2nd and 3rd year of all streams attended the event.
- Computer Society of India (CSI) student branch, Institute of Technology organized a Machine Learning Lecture series on September 11& 12, 2021. 50 participants from the 1st, 2nd and 3rd year of all streams attended the event.
- Computer Society of India (CSI) student branch, Institute of Technology organized a series of coding competitions - Vas-CODE- Gama 3 , 4, 5, 6, 7 and 8 exclusively for second year students on various dates from August to October.
- Computer Society of India (CSI) student branch, Institute of Technology organised a session: 'Ask me Anything' on August 2, 2021. It was an interactive online session which was aimed to guide students regarding on and off campus placements.

ALUMNI CORNER

Prof. Hardik Kothadia, Assistant Professor, IIT, Jodhpur, **Alumni of Mechanical Engineering Department** (M Tech Thermal Engineering 2011 batch pass out) was awarded "Teaching excellence award 2021" conferred by IIT, Jodhpur in August 2021.

Article by an Alumnus

Sharang Parnerkar, Email: parnerkarsharang@gmail.com

Short Bio: Currently, working as Development Engineer (Embedded Software) [German - Entwicklungsingenieur Software] at ETO GRUPPE in Stockach, Germany. Completed B.Tech at Nirma University in 2013 followed by M.Eng at Hochschule Ravensburg-Weingarten (RWU) [Ravensburg Weingarten University of applied sciences] in 2017.

Professional Career- The Needs and Experiences

For a successful tenure at any position in a professional work environment, there are a myriad of qualities, which generally define a persistent path of growth and achievement.

However, to attain these qualities, it is an uphill struggle and does somehow start right with the time you start working in the industry. But after magnifying and observing those qualities, I could say that at the core of it all there are no more than three distinct qualities which once attained would certainly lead to natural incubation of these famous traits, which you generally hear tossed around with hype.

Ownership

It is something which stimulates questions in your mind. Owning a project, owning a product, owning a company immediately brings us as an individual in direct attachment with our work. Ownership helps you understand the perspective of other departments and colleagues working with you. It helps you get insight into problems which you never knew of, but could occur. It extends beyond doing only what you are told. You empower yourself to take the reign of things in your own hands and think on how you would have done the job. Many times the thoughts are forced into action and you end up doing some of the best work of your lifetime. Ownership allows you to look beyond your daily tasks, it helps you gain insight with a holistic approach. It helps you iterate over your critical thinking.

Most of the time, your opinions won't be asked. Most of the time you won't express your opinions, but there will be a time when your thoughts would be heard and whether it was the idea to introduce a coffee break in winters or to partner with a university for a product, people will realize one thing for certain.

You own your work and that imbibes trust in people around, above and below you. It will bring you many challenges and with it decision making responsibilities. Ownership does not need you to work sixteen hours a day. It certainly does not give you the right to scrutinize others' work. In contradiction, it gives you a way to understand the work happening around you and how you could contribute.

Self-discipline

This is the one trait, which gives genesis to other traits, needed as per popular opinion for setting up a path to a successful career. Self-discipline starts with waking up on time and ends with going to bed on time. It encompasses punctuality, responsibility, accountability and target oriented work ethics. It helps you to work on-topic rather than wandering off topics in discussions. It helps bring calm to a heated argument, and it helps bring a moderation to a chaotic and unorganized team. The word "organization" itself reeks of self-discipline. Without self-discipline there will not be an organization. The set of protocols keep everybody in check.

Long you will realise that "rules are meant to be broken" is in itself a broken statement. Without rules, you would not have been able to claim the numbers on your bank statement as your assets. However, it is exactly this self-discipline which leads to revolutionary changes.

I would say, rules are meant to be re-written. Mr. Nakamoto did not agree with the bank rules. He did not just complain but took action on it. A decade later we still have rules of consensus, they are albeit different but not entirely missing. Self discipline helps manage the most scarce resource, time. Self-discipline grants you a sharpened Buriza-do Kyanon and teaches you how and when to swing it. Knowing our boundaries is exactly what empowers us to break them and expand our horizons.

Assimilation

Yes, you read it correctly. Eat all you want. Make gluttony even shy at your appetite. Not of food, but of knowledge. The assimilation of knowledge can only happen by reading and listening. These two activities are at the core of almost every individual in a professional environment. Some of them have more, some less, some learnt it right from the beginning, some learnt it the hard way, but everybody and mostly as people grow higher in position, they really like to listen. And they like to read. It just takes them a matter of seconds to separate the general crap thrown at them from game changing ideas. They listen to your voice and read your body language to process in a matter of minutes if not seconds if you are really talking about something that needs their time. They quickly decide if it is worth the time for both you and them.

Generally speaking though, when you have time on your hands, listening and reading, foraging information, one way absorption of data is really what happens ninety percent of the time in a truly professional environment.

Profound knowledge obtained via reading and listening in on a matter, be it a technical or a non-technical discussion helps facilitate concrete questions, which are not rhetorical and on the other hand does involve an actual exchange of knowledge. Thinking twice before asking is the last step. It is always better to listen twice and read about it twice even before one starts to think. Typically, assimilation of knowledge is the precursor to new innovations and great ideas.

Experience in The Professional Field:

It has been a roller coaster ride every day at work, since the beginning. Starting from part time writing jobs, a full time field job, a research assistant, a designer to a systems architect, each and every day is demanding.

There have been hardly any work days where I would think about doing something else or engaging in my hobbies, and complementing that, there have been hardly any

weekends or vacations where there was an urge to get up and work.

It is a non-trivial or perhaps a long lost treasure to find the work life balance people so often discuss. But it does exist and the journey to that balance is equally rewarding as the experience itself when you achieve it. I have been able to work on things which I wanted. I have been and currently also am working on solving problems which I find challenging and want to solve. I have had the pleasure of working with some great colleagues, insightful mentors and larger than life leaders and it has brought me nothing but happiness and satisfaction that I am always working with such a tremendous team.

The assimilation is still ongoing and before a year I would have bet with anybody that I can remember everything that I have picked up or learnt. Unfortunately, since a year ago, I am experiencing incidents where I forgot something technical, where nobody could best me at, a few years back. Naturally, I have developed new skills which I thought I would never do. In the wake, I have forgotten a few concepts where I used to stand unbeaten. I have realized that my capacity of learning has reached a saturation and that I must let go of the tools and capabilities which I don't need only in the hope that they come back to me at a later stage or stay with me as a hobby outside my work life. But that hasn't set me back even a single byte when it comes to assimilating new information consistently. After all, I have realized that we as humans are only here to solve problems, with the best tools we have, while expanding our knowledge alongside. But as long as there is a job that can be done, I am alright with not knowing how to do it. As far as I have experienced, all of us are capable of learning and relearning a few tools, some skills, but above all many great things to achieve anything we want.

Alumni Interaction with the Institute

Mechanical Engineering Students' Association (MESA) arranged Alumni Interaction on Foundation Day, October 4, 2021 for BTech 3rd, 5th, 7th semester and M.Tech 3rd semester students through online mode during 10:00 am to 12:00 pm.
Mr. Bonny Dave (Co-Founder, Trestle Labs) interacted upon his journey for start-up. While **Mr. Hoozefa Shaikh** (Rotating Equipment Eng, Linde Engineering India) and **Mr.Visamy Shah,** (Sr Eng, Gujarat Gas ltd) explained how to fit in the industrial environment to be a successful professional.

Mr. Himanshu Bhutia , Environment In-charge, Aarti Industries Limited, visited the department of Chemical Engineering virtually on October 25, 2021 where he held a session on "Water Management and Industrial Wastewater Treatment" with 5th semester undergraduate students.

Mr. Nikunj Patel, working at Thermex Limited, interacted with the students of the Chemical Engineering department virtually on October 19, 2021 where he shared his experiences at Thermex and explained about safety in chemical industries.

IGBC Students' Chapter and Civil Engineering Department organised an interaction with alumni by **Ms. Prutha Patel** (Alumni of 2020 Batch) on August 06, 2021. Being an IGBC accredited professional she also delivered an expert talk on IGBC Certified Green Buildings.

Expert talk by **Mr Smit Ghelani** was delivered for the students of BTech 3rd Semester CSE on September 13, 2021. The talk was on "Building Your Attitude for the Corporate World".

Expert talk by **Ms Rachana Jadeja**, a 2012 pass-out and a Major in Indian Army conducted a talk on 'Armed Forces as a Career Option' for the students of BTech 5th Semester CSE on September16, 2021.She has been serving the Indian Army since 2014. Currently, she is posted in Bhopal with rank of Major.

Expert talk titled "Open CV-Understanding usage and significance" by **Mr. Shivam Patel** was conducted on September 4, 2021 for trimester 4 BTech CSE MBA. Mr. Patel is pursuing his masters at Carnegie Mellon University, USA.

Expert talk on "Different Career Paths in Computer Science" was delivered by **Ms Shobhita Agrawal**, a 2012 pass-out alumnus of IT branch for the students of BTech 3rd Semester CSE on October 08, 2021.

The company "Iolite Softwares Private Limited" founded by **Mr Rahul Shah**, an alumini of Computer Engineering Department was one of the sponsor partners of the upcoming international conference by CSE Department (FTNCT 2021).

The Souvenir design partner for FTNCT-2021 was Atlas Softweb Private Limited and founder is **Mr Royson Rajan** (05BCE158) - an alumni of Computer Engineering during 2004 - 2007.

The Electronics and Communication Students' Organization organized a mock interview session and interaction with the corporate interviewer on October 02, 2021.Alumni members of EC, **Mr. Devang Gajjar**, Sr. Design Engineer, Intel, Bangalore, **Mr. Timir Soni**, Design Engineer, eInfochips, **Mr. Mitul Mevada**, **Ms. Modini Ayyagiri, Mr. Vinayak Sharma, Mr. Pranjal Shrivastava** from Infineon, and **Mr. Vimal Zalariya**, Silicon Validation Engineer, Google conducted the various sessions.

An alumni interaction session on "Trends in Electric Vehicle Technology" was held on 3rd Aug 2021 for B tech students of semester V and VII by **Mr. Suwarn Pant** General Manager(EV Product) TATA Motors Ltd.

An alumni interaction session on "Introduction to BlockChain '' was held on 6th Aug 2021 for B tech students of semester V and VII by **Mr. Husein Kapasi** Block chain Lead at PwC Europe with focus on Enterprise Block chain i.e. Block chain application in industry.

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Thank You

Nirma offers its sincerest appreciation to its Alumni. Thank you! Your thoughtful generosity continues to bring student opportunities to new heights.

ITNU @ Media

STUDENT INNOVATION — ૨૪ ડિસેમ્બરે ચંડીગઢ યુનિવર્સિટીમાં યોજાશે 'સોલાર વ્હિકલ કોમ્પિટિશન'

સોલાર વ્હિકલ

નિરમા યુનિવર્સિટીના સ્ટુડન્ટસે બનાવ્યું લાઇટવેઇટ

એશિયાની સૌથી મોટી સોલાર વ્હિકલ કોમ્પિટિશનમાં નિરમા યુનિ.ના ૪૦ સ્ટુડન્ટસે બનાવેલી સોલાર કાર મેદાનમાં ઊતરશે

રેસમાં ૬૦ મિનિટ સુધી કાર દોડાવવી પડશે

23rd December 2021, Sandesh, Ahmedabad, (City Life)

છેલ્લા 10 વર્ષથી નિરમા યુનિવર્સિટીના ગામના ડ્રોપ આઉટ બાળકોને અભ્યાસ કરાવી રહ્યા છે

40 સ્ટુડન્ટ્સ 'નિરમા વોલેન્ટીયરિંગ મુવમેન્ટ' અંતર્ગત મીરોલી ગામના બાળકોને સ્ટડી કરાવે છે

'નિરમા વોલેન્ટીયરિંગ મુવમેન્ટ' માં 400 વોલેન્ટીયર જોડાયેલા છે

'સફર' દ્વારા ગામના બાળકોને યુનિવર્સિટી બતાવી છે

નિરમાની ટીમ ABU Robocon સ્પર્ધામાં નેશનલ ચેમ્પિયન બની

દર વર્ષે એશિયા પેસિફિક રોબોર્ટ કોન્ટેસ્ટ કરવામાં આવે છે, જેમાં ભારતમાં આવેલી વિવિધ કોલેજની સ્ટુડન્ટસ ટીમ ભાગ લે છે. આ સ્પર્ધા દર વર્ષે અલગ અલગ દેશો હોસ્ટ કરે છે અને તે દેશ દ્વારા કોમ્પિટિશનની થીમ નક્કી કરવામાં આવે છે. આ વર્ષે જીમો- ચાઇના રોબોકોન સ્પર્ધાને હોસ્ટ કરી રહ્યું છે જેને લીધે 'થ્રોઇંગ એરો ઇન ધી પોટ' થીમ રખાઈ હતી.

ભારતમાં આવેલી એન્જિનિયરિંગ કોલેજની ૬૩ ટીમે આ રોબોકોન સ્પર્ધામાં ભાગ લીધો હતો. આ સ્પર્ધામાં ત્રણ અલગ અલગ તબક્કામાંથી પસાર થવાનું હતું. ૩ મિનિટની અંદર વધુમાં વધુ તીર અલગ અલગ જગ્યાએ લેન્ડ કરવાના હતાં, જેમાં નિરમાના રોબો દ્વારા માત્ર ૫૬ સેકન્ડમાં ૮૦ એરો

લેન્ડ કરીને ટીમ વિજેતા બન્યા હતા. આ વિશે પ્રોફેસર મિહિર ચૌહાણે વાત કરતાં કહ્યું કે, મિકેનિકલ, ઇલેક્ટ્રિકલ, ડિઝાઇનિંગ, એન્જિનિયરિંગ શાખાના ૧૨ સ્ટુડન્ટસની ટીમ દ્વારા 'થ્રોઇંગ રોબોટ (ટીઆર) અને ડિફેન્સિવ રોબોટ (ડીઆર)' થીમ હેઠળ રોબોટ્સને તૈયાર કરવામાં આવ્યા

હતા અને આ બંને રોબોટ્સનું વજન ૫૦ કિલોગ્રામ હતું. આ રોબોટ્સ તૈયાર કરવામાં પ્લાસ્ટિકની બોટલનો પણ ઉપયોગ કરવામાં આવ્યો હતો. આ રોબોટ્સને બનતા ૬ થી ૭ મહિના જેવો સમય લાગ્યો હતો અને તેનું સંપૂર્ણ માર્ગદર્શન ડૉ.આર. એન. પટેલ, ડૉ.આકાશ મેકવાન દ્વારા આપવામાં આવ્યું હતું.

ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજિ નિરમા યુનિ.ના 27મા ફાઉન્ડેશન દિનની ઉજવણી

ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજિ નિરમા યુનિવર્સિટીના ૨૭મા ફાઉન્ડેશન દિનની ઉજવણીનું આયોજન ઓનલાઇન અને ઓફલાઇન રીતે કરવામાં આવ્યું હતું. ફાઉન્ડેશન ડે નિમિત્તે મુખ્ય અતિથિ તરીકે સેક ઇસરો અમદાવાદના ડાયરેક્ટર નિલેશભાઇ દેસાઇએ ઉપસ્થિત રહ્યા હતા અને તેઓએ કહ્યું કે, સ્ટુડન્ટ્સે ક્યારેય નિષ્ફળતાથી હારી ગયા છીએ તેમ માનવું જોઇએ નહીં. નિષ્ફળતા મળી છે તો તેમાંથી જીવનને એક નવી દિશા શોધવી તે સફળતા છે. જીવનમાં આવેલી પડેલી અણધારી નિષ્ફળતાને માનસિક હાવી થવાની બદલે તેમાંથી સારી સફળતાને પ્રાપ્ત કરવા માટેના કાર્યમાં સમય આપવો જોઇએ. સફળતા અને નિષ્ફળતા દરેક વ્યક્તિના જીવનના બે પાસાં છે. આધુનિક સમય ટેકનોલોજીનો છે. ઇસરો દ્વારા વિવિધ સંશોધન કરીને સમાજની સમસ્યાઓનું સમાધાન કરવામાં યોગદાન આપવાનું કામ કર્યું છે. કાર્યક્રમમાં આર.એન.પટેલે કહ્યું કે, દરેક વ્યક્તિના જીવનમાં ચઢાવ-ઉતાર આવતો હોય છે ત્યારે આવી મુશ્કેલીઓના સમયમાં પણ દરેક સ્થિતિનો સામનો કરીને સારી કામગીરી કરવી તે પ્રકારનું લક્ષ્ય બનાવવું જોઇએ.

ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજિ નિરમા યુનિવર્સિટી દ્વારા ઓરિએન્ટેશન પ્રોગ્રામ

ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજિ નિરમા યુનિવર્સિટી દ્વારા બી.ટેક ફર્સ્ટયર ૨૦૨૧-૨૨ના સ્ટુડન્ટ્સ માટે ઓરિએન્ટેશન પ્રોગ્રામનું આયોજન કરવામાં આવ્યું હતું. ઓરિએન્ટેશન પ્રોગ્રામમાં ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજીના ડિરેક્ટર ડૉ.આર.એન.પટેલે કહ્યું કે, સમાજમાં પરિવર્તન લાવવામાં શિક્ષણ મહત્વનો ભાગ ભજવે છે. વ્યક્તિના વિચારની સાથે તેના જીવનમાં શિક્ષણનું આગવું મહત્વ છે. દરેક પ્રકારની ટેકનોલોજીમાં સમયાંતરે પરિવર્તન આવી રહ્યું છે. દરેક સ્ટુડન્ટ્સ પોતાના જીવનની કારકિર્દીને સારી ઊંચાઇએ લઇ જવા માટે અભ્યાસ પર વધુ ફોકસ કરતો હોય છે. આધુનિક સમય દરેક સ્ટુડન્ટ્સ માટે અતિ મહત્વનો બની રહ્યો છે. કોરોનાના સમયને લીધે છેલ્લાં ઘણા મહિનાઓ ઓનલાઇન રીતે અભ્યાસ કરવો પડ્યો હતો અને હવે કોરોનાની સ્થિતિમાં સુધારો થતા ઓફલાઇન શિક્ષણ શરૂ થતા ઘણા જ ઉત્સાહ સાથે સ્ટુડન્ટ્સ કેમ્પસમાં આવી રહ્યા છે.

નિરમા યુનિવર્સિટીના ઇન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજી ડિપાર્ટમેન્ટના ૨૭મા ફાઉન્ડેશન ડે નિમિત્તે સિવિલ એન્જિનિયરિંગ ડિપાર્ટમેન્ટના ઓરકસ ક્લબ દ્વારા જરૂરિયાતમંદ બાળકોને જમાડ્યા સાથે ૫૦ પરિવારને અનાજ કિટનું વિતરણ કરીને જ્ઞાન સાથે ગમ્મત કરાવી હતી.

...ટ્યૂટ ઓફ ટેકનોલોજિ નિરમા યુનિ.ના સાત સ્ટુડન્ટ ટીમે બાલસાના લાકડા અને ફોમબોર્ડમાંથી

રિમોટ કંટ્રોલથી 1.2 કિલોમીટર ઊંચાઇ સુધી ઊડી શકે તેવું મિની પ્લેન તૈયાર કરાયું

SEAERO ડિઝાઇન કોમ્પિટિશનમાં નિરમા યુનિવર્સિટીની સ્ટુડન્ટ ટીમે ફર્સ્ટ પ્રાઇઝ મેળવ્યું

દસ દિવસમાં આ પ્લેન સંપૂર્ણ રીતે તૈયાર કર્યું હતું