

TECH PULSE

The Quarterly Newsletter by L. D. College of Engineering



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AROUND THE INSTITUTE

Lalbbhai Dalpatbbhai College of Engineering endearingly known as L.D.C.E is Ahmedabad's premier engineering college situated at city's heart surrounded by elite organization Like PRL, ATIRA, ISRO, IIM and CEPT. Started in 1948 with an aim of imparting quality higher education in various fields of engineering, it has seen unprecedented growth.

It is affiliated with Gujarat Technological University & administrated by Department of Technical Education, Government of Gujarat.

FROM THE DESK OF PRINCIPAL

Dear students and faculty members. These three months have been one of the toughest phases the world has seen. The COVID-19 situation brought almost everything to a standstill. Yet I am glad that we did not succumb to the situation and gave our best. Not just online teaching-learning but we extended our support to society through community help. The institute gave its best in supporting students, whether it is teaching or projects.

Not breaking the tradition of KAIZEN, it was successfully conducted online. With a lot of webinars organized and attended, there was immense sharing of knowledge. All the faculty members attended an online training program on IPR, which will lead to noteworthy results soon. I wish and pray that we triumphantly come out of these difficult times.

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Dr. R K Gajjar



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Meet Koriya

Shreya Parmar

Ravi Parmar

Dev Patel

INDUSTRY-INSTITUTE INTERACTION:

- **171 participants** joined in an online Expert talk on “**Scope of Automobile Sector post Covid-19**” by **Mr. Anil Church**, CEO Pegasus Group on 05/06/2020.
- **Ms. Darshna Patel**, Senior Environmental Engineer, Ahmedabad Municipal Corporation was delivered a webinar on “**Current Solid Waste Management Process for Ahmedabad City**” on 5th May,2020
- **Mr. Vivek Sheth** from Envirokleen Solutions has delivered webinar on **Environmental Audit in Industries** on 20th May, 2020
- **Prof. Dipsha Shah**, Associate Professor from CEPT University has delivered a webinar on “**Smart Cities: Water Management**” on 21st May, 2020
- **Mr. Derrall Merchant** delivered a webinar on “**Elements of Dust Control and handling system**” on 22nd May, 2020. (Env.)
- **Mr. Jeet Trivedi**- Mind Power Trainer, Ahmedabad has conducted a webinar on “**Webinar on building habits**” during lock down period and **Mr. Dileep Mani** from Pepperl + Fuchs, Bangalore has delivered webinar on “**Webinar on explosion protection**” during lock down period.
- The **Textile Department** organized a webinar on “**Advances in Technical Textile**” on 7th May, 2020. **Shri Kamlesh Patel**, COO, Advanced Material Division, Arvind Ltd. was the main speaker for the session.
- A webinar on “**Case studies in Sustainable Textile Production**” was organized by the department on 21st May, 2020. **Shri Shrikant Pareek**, Business Head, Group Ashima was the main speaker for the session.
- The Textile department organized a webinar series of 5 days on “**Fundamentals of Textile Processing** during 4th May to 8th May, 2020. **Prof. Hiren Jaiswal** coordinated the series.
- **Dr. N M Bhatt** (MECH) delivered a webinar on ‘**R1234yf as substitute to R134a in Domestic Refrigerator**’ on 26/04/2020 under the aegis of **ISHRAE** Ahmedabad chapter.
- **Dr. R. G. Kapadia** (MECH) has given three webinars on **ISHRAE platform**.
(1) The next generation refrigerant on Apr 11, 2020,
(2) The evolution of transcritical CO2 system in HVAC & R Apr 15, 2020 and
(3) Low GWP refrigerant on Apr 20, 2020.
- **Prof. Y. D. Vora** (MECH) successfully reviewed more than 10,000 ideas/innovation as expert in the area of Mechanical Engineering under the ‘**Innovation in Science Pursuit for Inspired Research**’ (INSPIRE Awards-MANAK) scheme - one of the flagship programs of Department of Science & Technology (DST), Government of India for the year 2019-20.
- **Prof. Y. D. Vora, Dr. S. S. Pathan and Dr. A. V. Patel** worked in the Ahmedabad district rides inspection committee as expert members in the area of Mechanical Engineering. They have been giving valuable suggestions to improve design, layout modification, maintainability and safety of the rides located at various locations in Ahmedabad district during the year 2020.
- Under **LDCE ISHRAE** students’ chapter **Prof. Hardik Shukla** (MECH), under guidance of Prof **Dr. N M Bhatt**, has coordinated 17 programs (webinar, quiz etc.) in lockdown period.

Due to COVID-19 situation industrial visits were not possible hence a number of webinars were organized to sustain communication with industries.

- **The Department of Plastic Technology organized various webinars as follows:**

- On **"Hollow Manufacturing"** by **Prashant Trivedi**, VP, Sangir Plastics on 9th May 2020.
- On **"Essence of Six Sigma"** by **Dr. Pradeep Bakshi**, Consultant, Plastic Technology,
- On **"Basics of Drying in Processing"** by **Jay Jani**, Asst. Manager, Prasad Group of Companies,
- On **"Basics of Blending in plastic processing"** by **Harsh Bhatt**, Prasad group of Companies, Assistant Manager, on 14/5/2020,
- On **"Color and additive master batch"** by **Chetan Shah**, Owner, Drishti Polytech & Rishma Agencie on 19/5/2020,
- **"Plasticating screws"** by **Mrunal Sanghvi**, General Sales Manager, Nordson Polymer Processing on 21/5/2020,
- **"Nano polymers"** by **Dr. Mamta Saiyad**, Associate Professor In Chemical Engineering, Nirma University on 23/5/2020,
- **"Servo Robots in Plastic Technology"** by **Bhairav Prajapati**, Manager, International Sales, Prasad group of Companies on 27/6/2020.

- **The Department of Rubber Technology Department organized various webinars as follows:**

- **Prof. R. N. Desai** has arranged the online pedagogy meeting with Mr. Ashutosh Kothari on 12th May, 2020, on **"Postcovid-19 Challenges in Rubber Industries"**.
- A Webinar session was organized for Rubber Technology Students on **"Role of Reverse Engineering for the Product development"** delivered by Mr. Nikunj Thakkar, Rubber alumni & Asst. Manager Marketing at GP petroleums Ltd. on 3rd May 2020.
- A Webinar was organized for Rubber Technology Students on **"Silicon chemistry and it's compounding"** delivered by **Mr. Joel Lalucherian**, Rubber alumni & R&D engg., Ami Polymers PVT. Ltd. on 6th May 2020.
- An interactive Webinar was organized for Rubber Technology Students on **"Rubber to Metal Bonding Adhesive"** delivered by **Mr. Chetan N. Kshirsagar**, Rubber alumni & Technical Service Ex. on 4th May 2020.
- An Online session was organized for Rubber Technology Students on **"Silicone Elastomer and its Applications"** delivered by **Mr. Keval Doshi**, Rubber alumni & Asst. Manager Marketing at GP petroleums Ltd. on 5th May 2020.
- An interactive webinar was organized for Rubber Technology students on **"Peroxide cure of Elastomers"** delivered by **Mr. Atul Shah**, Rubber alumni & MD, Pioneer Industries on 7th May 2020.

- An Online session was organized for Rubber Technology Students on “**Rubber processing oil**” delivered by **Mr. Atul Shah**, Rubber alumni & MD, Pioneer Industries on 7th May 2020.
- A Webinar session was organized for Rubber Technology Students on “**Fundamentals on Cold Shrink Technology**” delivered by **Ms. Treena Topdar**, Rubber alumni & Senior Executive, Vodafone, on 9th May 2020.
- A Webinar was organized for Rubber Technology Students on “**Viton rubber and it's compounding**” delivered by **Mr. Joel Lalucharian**, Rubber alumni & R&D Engg., Ami Polymers PVT. Ltd. on 9th May 2020.
- An expert lecture was organized for Rubber Technology Students on “**5S techniques for Beginners and Professionals**” delivered by **Mr. Vishal S. Khernar**, working as a Quality engineer in Ami Polymers, on 11th May 2020.
- A Webinar was organized for Rubber Technology Students on “**Occupation Opportunity Beyond & within Rubber Technology** ” delivered by **Mr. Ronak Panchal**, Rubber alumni & MD of Pravin Rubber & Engineering works, on 12th May 2020.
- An Online session was organized for Rubber Technology Students on “**Trans – Polyoctenamer: The world’s most versatile rubber additive**” delivered by **Mr. Atul Shah**, Rubber alumni & MD, Pioneer Industries on 13th May 2020.
- An expert lecture was organized for Rubber Technology Students on “**Styrene Butadiene Rubber**” delivered by **Dr. Sandeep Rai**, Vice President & Chief R&D officer, GRP Ltd. on 14th May 2020.
- An expert lecture was organized for Rubber Technology Students on “**Reclaim Rubber**” delivered by **Dr. Sandeep Rai**, Vice President & Chief R&D officer, GRP Ltd. on 15th May 2020.
- An Online session was organized for Rubber Technology Students on “**Computer Aided Engineering Analysis and Finite Element Analysis in Rubber Industries**” delivered by **Mr. Devendra Gandhi**, Manager - Global Product Development, Rubber alumni & Mahindra & Mahindra Limited on 13th May 2020.
- A webinar was organized for Rubber Technology Students on “**An Introduction of Rubber Technology in Automobile Industry** ” delivered by **Mr. Pranav Shukla**, Rubber alumni, Asst. Manager -Development and Design Lead , Fiat, Chrysler Automobile India (Jeep) on 15th May 2020.
- An Online session was organized for Rubber Technology Students on “**Passenger radial tyre: basics, manufacturing & silica technology**” delivered by **Mr. Birju Unadkat**, Rubber alumni, Tech Manager, Goodyear India LTD. on 19th May 2020.
- An expert lecture was organized for Rubber Technology Students on “**Thermoplastic Elastomers**” delivered by **Mr. Brajesh Gattani**, Director, Flexishine Polyblends LLP. on 20th May 2020.
- An expert lecture was organized for Rubber Technology Students on “**Acrylonitrile Butadiene Rubber(NBR)**” delivered by **Dr. Sandeep Rai**, Vice President & Chief R&D officer, GRP Ltd. on 21th May 2020.
- An Online session was organized for Rubber Technology Students on “**Carbon Black- Versatile Reinforcement Material**” delivered by **Mr. Hardik Banker**, Rubber alumni Technical Specialist, Cabot Corporation on 22nd May 2020.

RESEARCH AND CONSULTANCY: (SSIP, PATENTS)

- An interdisciplinary team involving students from Biomedical department and Tanay Gajjar, Rakesh Mahato from Mechanical Engineering Department have received funding from Student Startup and Innovation Policy (SSIP), Government of Gujarat towards development of prototype/proof of concept (PoC) titled, "**PRAN**" under the guidance of Prof. Dhaval Patel (Mechanical Engineering), Prof. Bhavesh Parmar (Biomedical Engineering), and **Dr. R. K. Gajjar** (Principal, LDCE) and Mr. Ragesh Bateriwala (CoE Welding).
- Neel Maradia, Girish Dikhole, Mihir Parekh, Parth Agheda and Dr. Mrunalkumar D. Chaudhari (MECH) have filed a patent titled "**Aqua Cleaner**" under application number 202021024093 with the financial support from Aarambh Cell (LDCE SSIP Cell).
- Tanay Gajjar, Rakesh Mahanto and the team "**PRAN**" have filed a provisional patent on 09/05/2020 with the financial support from Aarambh Cell (LDCE SSIP Cell).

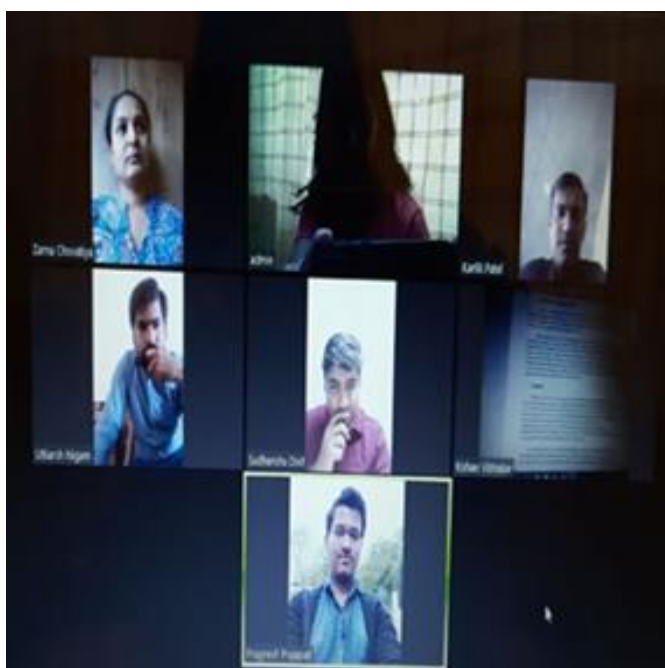
SSIP CELL:

1. A project titled "**Wheel Alignment Machine**" led by Mr. Hardik Gohel and mentored by Prof. J.P.Vasani received a grant of 40000 INR from LDCE SSIP cell under SSIP Policy of state government.
2. Prof. M. R. Vasavada has coordinated a webinar on "**Prior Art Searching**" on behalf of SSIP Cell LDCE on 15.04.2020.(EE)
3. Prof. M. R. Vasavada has coordinated a webinar on "**POC to Patent**" on behalf of SSIP Cell LDCE on 16.04.2020.(EE)
4. Prof Fredrik Macwan has delivered an interactive online session on "**Chess - battle of intellectual minds**" at summer boot camp 2020 organized by SSIP Cell LDCE, for school children. - 19-05-2020.(EE)
5. SSIP Institute level "**Online scrutiny of 6th Phase**" following PoC of IC department was recommended for funding.

Team Leader Name	PoC Name	Sanction Amount (INR)
Milan Desai	Autonomous disinfection robot	50,000/-
Bhatt Kirtan	Underground Cable Fault Detector	11,000/-
Parekh Zarana	SA'I' D2.0	50,000/-

STUDENTS' ACHIEVEMENT

1. **SAE LDCE Club** created Banners and Videos for **Covid-19 awareness**. All videos are available on SAE LDCE YouTube channel.
2. Online **Kaizen Event** was organized by the automobile department in which 15 Projects of final year students were displayed online. 67 students and 10 faculty members participated in this program.
3. Three-Days "**Kaizen -2020: Online Project Presentation**" was organized for the first time from 6th to 8th April, 2020 using ZOOM Platform. 101 students in 27 teams presented their projects to the project committee members led by **Dr. R. B. Khasiya, Prof. S. C. Rathod, Prof. U. P. Nigam, Prof. S. S. Dixit and Prof. J. S. Kamble.**(CE)



4. **Yesha Panchal** (BME) is Woman Representative from **Swa Sarjan Foundation** (India) to the largest women community of Nigeria on 6th June 2020, **Every Woman's Dream Foundation** working for women going through serious issues such as rape, sexual harassment, not able to study or work and mental stress. She is working on providing mental support, grooming their self-confidence and showing them ways to take a step up by moving out of comfort zones by not living in past and Rising Above Adversities.
5. **Vidhi Agrawal** (Sem. 4th student) stood first in a drawing competition organized in April 2020 on the topic – "**Positive effects of Home Quarantine**" Category – "**Jury's Choice**" on 27th April 2020 by SANGATH IPL, SANGATH Infrastructure Pvt. Ltd.
6. Final year students of Biomedical engineering department **Karan Patel** and **Karan Mistry** won 6th rank among the 3000 participating teams at national level in to "**GLOBAL HACKATHON**" with innovative device "**Breathing analyzer to detect and separate the COVID19 people**". The competition was co-organized by FICCI FLO Pune, Ministry of Electronics & Information Technology, Government of India, MeitY Garage48, Science and Technology Park, and Dr. APJ Abdul Kalam Centre.

7. Final year student **Mr. Karan Patel** and team (BME) mentored by **Prof. Bhavesh Parmar** have filed provisional patent for **“NIVARAN: Non Invasive Vital sign & Respiratory Analyser”** a specific diagnostic device for COVID19.
8. Final year student **Mr. Karan Patel** and team (BME) mentored by **Prof. Bhavesh Parmar** have filed provisional patent for **“PRAN: Protective Respiratory Auxiliary Node”** a specific protective device for medical staff who are engaged with COVID-19 care.
9. Final year student **Mr. Karan Mistry** and team (BME) mentored by **Prof. Bhavesh Parmar** have filed provisional patent for **“eDRA: Early Diagnosis of Rheumatoid Arthritis”** a low cost rheumatoid arthritis detection device.
10. **Mehul Chauhan** (ECE) of 8th Semester has actively rendered his services to the society during this testing time of COVID-19. He is an inspiration to society.
11. **Rutvi Patel** (ECE) of 7th Semester has successfully completed the Coursera courses on **“Introduction to Internet of Things and embedded systems”** and **“The Arduino Platform and C programming”** during the lockdown.
12. **Kush Vyas** (ECE) of 3rd semester has done a YouTube creator academy course on **“The Quickstart Guide to YouTube”** on 6th June 2020.
13. **Naitik Paghadar** (ECE) of 7th semester has successfully completed a course in Udemy on **“The Complete Python 3 Course: Beginner to Advanced”** on 13th April 2020.
14. **Mayank Babariya** (ECE) of 7th Semester has successfully completed 5 Coursera courses on **“End-to-End Machine Learning with TensorFlow on GCP”**, Python Data Structures, How Google does Machine Learning, Statistical Inference, and Crash Course on Python during May-July 2020.
15. **Meet Prajapati** (ECE) of 3rd Semester has successfully completed a 15 days certified course on **“Career Edge-knockdown the Lockdown”** offered by TCS ioN during 16th April-6th May 2.
16. **Priyam Sheth** (ECE) of 3rd semester has successfully completed the course on **“Career Edge - Knockdown the Lockdown”** online course offered by TCS iON during 12th -17th April 2020.
17. **Pratham Patel** (ECE) of 3rd semester has successfully completed the course on **“Career Edge - Knockdown the Lockdown”** online course offered by TCS iON during 3rd-6th May 2020.
18. **Pratham Patel** (ECE) of 3rd semester has successfully completed **“Career Edge – Knockdown”** the Lockdown online course offered by TCS iON during 12th -17th April 2020.
19. **Pratham Patel** (ECE) has successfully completed a course on **“Risk Management in Financial sector”**, an online course offered by iON Digital Hub on 7th May 2020.
20. **Jashesh Manishbhai Shah** (ECE) of 3rd Semester has successfully completed a course on **“Introduction to Data Analytics for Business”**, an online non-credit course authorized by University of Colorado Boulder and offered through Coursera in June 2020.

21. **Yugma Thakore** (ECE) of 3rd Semester successfully completed a course on **“Getting Started with Music Theory”** an online non-credit course authorized by Michigan State University and offered through Coursera on 30th June 2020.
22. **Shreyas Mudakavi** (ECE) has successfully completed six weeks online training on **“Programming with Python”** from 14th April, 2020 to 26th May, 2020 organized by Intershala Trainings.
23. **Bhavesh Bhayal** (ECE) has successfully completed **“Python for Data Science and AI and What is Data Science?”** an online non-credit course authorized by IBM, **“Python”** an online non-credit course authorized by Google and offered through Course.
24. **Ankit Sunil Singh** (ECE) has successfully completed courses on **“Mathematics for Machine Learning: Linear Algebra and Mathematics for Machine Learning: Multivariate Calculus ”** an online non-credit course authorized by Imperial College London , **“Introduction to Data Science in Python”** an online non-credit course authorized by University of Michigan, **“Principal Component Analysis with NumPy”** an online non-credit course authorized by Coursera Project Network, **“Neural Networks and Deep Learning and Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization”** an online non-credit course authorized by deeplearning.ai and offered through Course.
25. **Yash J Takwani** (ECE) has successfully completed a course on **“Java Programming: Solving Problems with Software”** an online non-credit course authorized by Duke University and offered through Coursera.
26. **Mayank Babariya** (ECE) has successfully completed **“Crash Course on Python”** an online non-credit course authorized by Google and offered through Coursera.
27. **Ankit Singh** (ECE) has successfully completed the training on **“COVID-19 Training for NCC Cadets”** organized by Department of personal training, on 4th June 2020.
28. **Prapti Jain** (ECE) of 5th Semester was one of the winners in **“CS50x Puzzle Competition”** held by Harvard in April 2020.
29. **Nishith Vasava** (ECE) of 5th semester had participated in an online **“Chess Tournament”** and stood 3rd. The tournament was conducted by SAE CLUB LDCE on 3rd May, 2020
30. UG and PG students of Rubber Technology department have attended webinar series on **“Synthetic Rubbers, its compounding & processing”** organized by Indian Rubber Institute (IRI) through Zoom meeting during 6th to 10th April, 2020.
31. **Patel Mayank** 6th IC Dept. and **Bharmal Buarhanuddin** President and member **ISA STUDENT SECTION LDCE** Scholarship amount: 600 \$ and 450 \$ respectively.
32. **UV DISINFECTION CHAMBER** was made by Laxman Darji, Bhawar Prajapati & Mayank Panchal, IC department.
33. The Final year students of **UG and PG of Rubber Technology department** have successfully presented their projects through digital platform in online **Kaizen 2020**, conducted at Department level during April, 2020.

34. **Mr. Kishan** a student of B.E. VI Rubber Technology, had actively contributed in **“Blood donation Camp through Prathama”** for Blood collection for Thalassemia positive kids, Organized by NSS, LDCE at Red cross society club during April,2020.
35. **Poonal Surani**, a student of BE Rubber Technology has successfully completed an event as a participant in **“CHESS CHAMPIONSHIP”** hosted by SAE LDCE Club, L.D. College of Engineering, Ahmedabad held on 2nd May, 2020.
36. **Prince Trada**, a student of B.E. Sem IV, Rubber Technology, has participated in a webinar on **“startup canvas 9 points organized by i-Hub”** Gujarat on 20th May, 2020.
37. **Daxit Soni**, a student of B.E. Sem IV, Rubber Technology, has participated in **“FTIR spectroscopy and its applications”** organised by the department of plastic & polymer engineering by 20th May, 2020.
38. **Daxit soni**, a student of B.E. Sem IV, Rubber Technology, has participated in **“Use of Hydrodynamic Models in Water Resource Engineering”** organised by the Civil Engineering Department of R. N. G. Patel Institute of Technology - RINGPIT on 24th May, 2020.
39. **Sarthak Bhavsar**, a student of B.E. Sem IV, Rubber Technology has participated in **“GTU logo competition”** organised by GTU during May 2020.
40. **Mr. Ruchith Rajeev** a student of B.E. VI Rubber Technology has successfully completed an online course on **“Career Edge - Knockdown the Lockdown”** offered by TCS iON, Digital learning Hub, during 22nd May to 03rd Jun, 2020.
41. **Mr. Chirag A.**, a student of B.E. VI Rubber Technology has successfully participated in the Quiz competition on **“World Environment Day”** organized by **“Shikshan Sanskriti Uthnan Nyas”** on 5th June 2020.
42. **Mr. Arth Shah**, a student of B.E. VI Rubber Technology, has participated in the online workshop on **“Starting Your Own Student Startup”** organised by GUSEC, Gujarat University on 5th June 2020.
43. **Kelvin Gajera**, a student of BE Rubber Technology has received online training under 'Finishing school webinar series - Upskill during lockdown' during 1st May to 15th June organized by KCG & iHub Gujarat and qualified the quiz for **“How to find right career for yourself”** and also qualified for **“Cover Letter and Resume Writing”** on 9th June 2020.
44. **Kelvin Gajera**, a student of BE Rubber Technology has received online training under 'Finishing school webinar series - Upskill during lockdown' during 1st May to 15th June organized by KCG & iHub Gujarat and qualified the quiz for **“Secrets of happiness”** on 11th June 2020.
45. **Mr. Ruchith Rajeev** a student of B.E. VI Rubber Technology has participated in **“Learn Six Sigma White Belt”** organized by Management and Strategy Institute on 12th June 2020.
46. **Mr. Ruchith Rajeev** a student of B.E. VI Rubber Technology has successfully passed the certification exam on **“Fundamentals of Digital Marketing”** organized through **“Google Digital Garage”** on 12th June 2020.
47. **Mr. Ruchith Rajeev** a student of B.E. VI Rubber Technology has participated in **“Project Management Essentials”** organized by Management and Strategy Institute on 13th June 2020.

49. **Mr. Arth Shah** a student of B.E. VI Rubber Technology, has completed **“Leadership Through Social Influence”** an online non-Credit course authorized by North western University and offered through Coursera, on 18th June 2020.
50. **Mr. Arth Shah**, a student of B.E. VI Rubber Technology has completed **“Work Smarter, Not Harder: Time Management for Personal & Professional Productivity”** an online non-credit course authorized by University of California, (Division of Continuing Education) Irvine and offered through Coursera on 15th June 2020.
51. **Mr. Arth Shah** a student of B.E. VI Rubber Technology, has completed **“Successful Negotiation: Essential Strategies and Skills”** an online non-credit course authorized by University of Michigan and offered through Coursera, on 21th June 2020.
52. **Prince Trada** successfully completed the 'Ek Bharat Shreshtha Bharat' quiz organized by the Ministry of Tourism & My Gov.
53. Three students supported **ATIRA**, Ahmedabad for manufacturing of **N99 masks** to be supplied to DRDO during the lockdown period.
54. **Laxman Darji, Bhawar Prajapati & Mayank Panchal** Students of IC department made a **“UV disinfection chamber”** which is used to sanitize where liquid sensitizers cannot be used. Like electronic gadgets, Leather, vegetables etc. here we used a UV-C lamp having 254 nm of wavelength which destroys the DNA structure of cells, bacteria, viruses, fungi, algae etc. This chamber reduces the risk of infection, cost of traditional cleaning and disinfection, and most importantly acquires confidence and security in medical facilities.
55. ISA PMCD division every year provides scholarships of up to 1500 \$ to support students financially. **Patel Mayank & Bharmal Burhanuddin**, Two members of ISA STUDENT SECTION LDCE (IC Department) got ISA PMCD scholarship of total worth 1050 \$.
56. **Vishwa Rao** a student of semester 7 of Information Technology department has attended the workshop of **Problem Solving and Basic Java** on an online platform named HackerRank.
57. **Anand Panchal** a student of semester 5 of Information Technology department has attended various courses such as Introduction to HTML5, Introduction to CSS3, and Introduction to Programing using python, Python for Data Science and AI and Speaking English Proficiently on an online platform named Coursera.
58. Students of 5th semester **Kevin Pansuriya and Nayan Pandav** completed 15 days of online training in TCS iON during 28/4/20 to 8/5/20.
59. Students of 3rd semester completed **online aptitude test** and **various quiz** organized by government as well private bodies during April - May, 2020.

COMMUNITY ENGAGEMENT

NCC, NSS, Clubs of college, other community activities

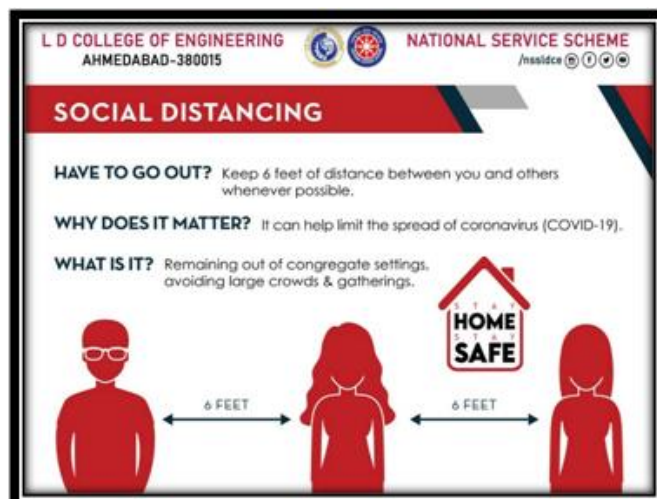
- **Blood Donation Campaign**
(March 18, 2020 to July 25, 2020)

NSS unit of LDCE organizes blood donation camp twice every year. Unfortunately, this time it had to be cancelled due to the prevalence of Corona pandemic. However, NSS LDCE did not step back from the responsibility. During this situation, when the thalassemia major patients faced shortage of blood, the volunteers of NSS LDCE and Red Cross Society worked in a different way. Volunteers carried out digital campaigning as well as door-to-door campaigning without any violation of government guidelines. Due to this, despite this pandemic, they were able to collect a remarkable number of blood units. More than 750 blood donors get ready to donate blood.

- **Social Media Awareness**
(March 13, 2020 to May 16, 2020)

In the pandemic of COVID-19, it was necessary to aware the citizens about the ongoing situation and as we all were aware that in the digital world, Social Media was the best platform. Thus, the volunteers of the NSS unit of L.D. College of Engineering started a small campaign on our various social media platforms like “Twitter, Instagram, Facebook, and WhatsApp.” Spreading awareness through posters and video messages on social distancing was another step in this direction.

Aarogya Setu app demonstration, immunity boosting tips, blood donation needs in this crisis with IRCS, Food kit donation drive etc. were also carried out. NSS volunteers also re-posted the same videos and posters through their social media handle so that it could reach thousands of people. This initiative brought everyone together with positivity in the crisis.



- **21-Day Challenge**
(March 26, 2020 to April 15, 2020)

A social media campaign was also organized under the name: #FIGHTCORONAWITHNSSLDCE. It was basically 21 challenges for 21 days wherein people were allocated tasks for 21 days to refresh the minds. It was fun with easily doable tasks and that too just by staying at home. On the completion of all the 21-day tasks, the participants received a Bravery Certificate.



- **21-Day Challenge**
(March 26, 2020 to April 15, 2020)

During the situation of pandemic, NSS LDCE did not fall back towards the responsibility of helping the needed people who could not afford the food. During this period, NSS LDCE raised around Rs. 2,97,500/- with the generous help of faculty members and volunteers for the “Food Kit Distribution”. Institute worked in collaboration with Indian Red Cross Society. Food Kit contained the 5 kg Khichadi Mix, basic grains and wheat flour & edible oil that could be sufficient for a family of 4 people to survive for 7 days. This work of preparation & distribution of food kits was carried out by the NSS volunteers and NCC cadets under the continuous guidance and support of Major (Dr.) C.S. Sanghvi, the program officer of NSS LDCE in association with the team of Indian Red Cross Society.



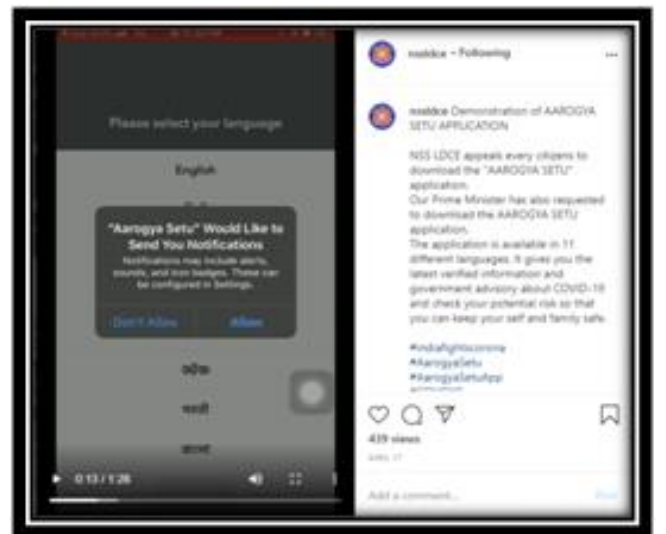
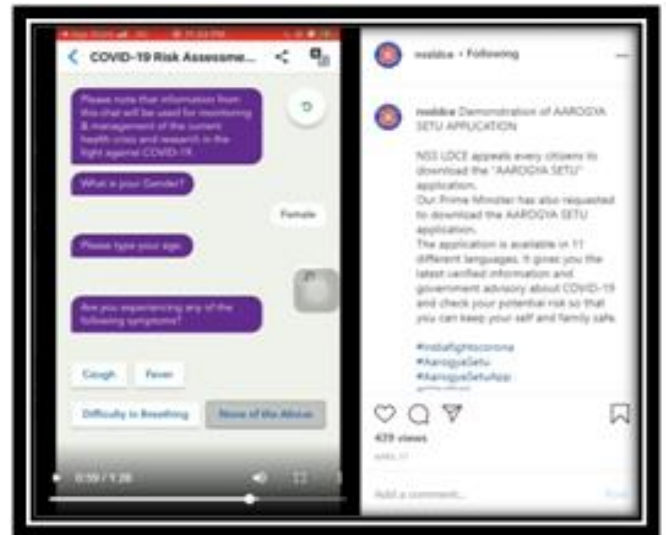
- **Food Kit Distribution**
(March 31, 2020 to June 2020)



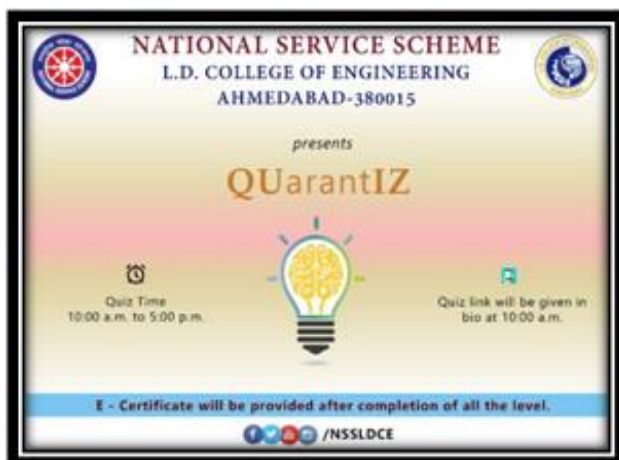
Amidst the COVID-19 outbreak and lockdown in the entire country, many families who worked on daily wages had to face hard times due to lack of money for food. To help them, NSS LDCE organized the “Food Kit Donation Drive” for these needy people. The volunteers along with the NSS Programme Officer Major (Dr.) C.S. Sanghvi, contributed to “Food Kit Donation Drive” with the Red Cross Society. The kit included khichdi mix, salt, sugar, oil, wheat flour, and chana dal. NSS volunteers helped in packing of food kits at Gulbai Tekra and distributed more than 10993 kits at many construction sites in Ahmedabad, Gandhinagar, Bhadaj and other such places. Kits were distributed to needy people & migrated people. More than 10,993 families were benefited. Kits were distributed at Chandkheda, Agora, Gulbai Tekra, Narol, Constructions sites and Factory sites near Narol. When people were migrating from Ahmedabad to their native place, food packets in form of snacks were given to them. More than 7000 packets of snacks were served with the help of NSS volunteers in association with Indian Red Cross Society.

- **Awareness campaign & Demonstration of Arogya Setu App (April 17, 2020)**

Volunteers of NSS LDCE carried out a full informative video on ‘how to use the Arogya Setu app?’ and thereby appealed to all the citizens to download the "AAROGYA SETU" application and use it effectively with ease. This initiative was taken to take a step ahead in the direction of what our Prime Minister had advised. More than 10000 students of the institution along with citizens of Ahmedabad have downloaded the app. Complete explanation along with every step right from downloading to use of the application was prepared. It was also explained to use app for analysis as well as diagnosis in the preferred language. Entire explanation was given with detailed information and live demonstration of the app which would make it easier for people to know about it.



- **QUarantIZ (April 24, 2020 to April 28, 2020)**



NSS LDCE organised “the quiz for the quarantine” to kill boredom. It took place from April 24th to 28th, 2020. In this, different topics were covered that included corona awareness, mythology, sports etc. with 20 questions assigned in each topic. Around 600 students participated in this unique quiz out of which the top 3 scorers at the end of last quiz were awarded with the winner certificate while all the participants received the certificate of appreciation.

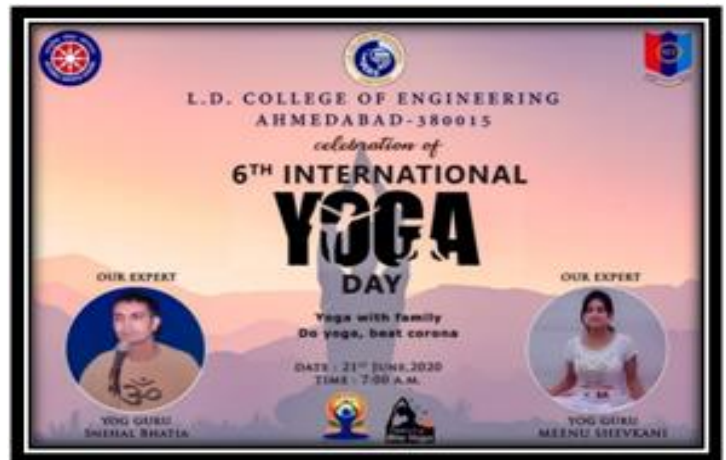
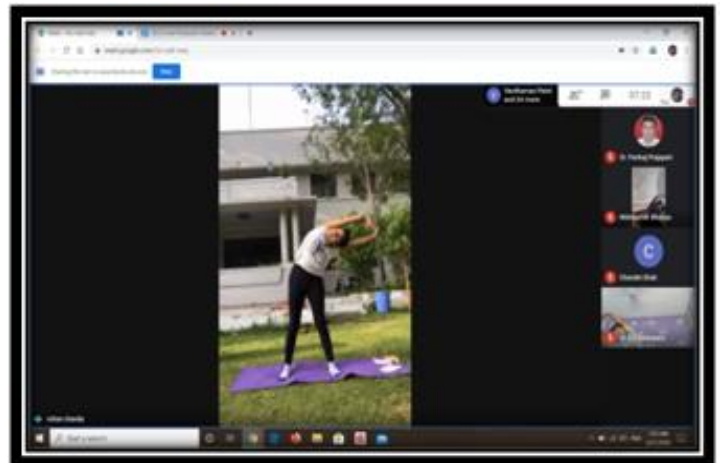


- **LDCE Foundation Day (June 20, 2020)**

L.D. College Of Engineering, Ahmedabad organized an online program to celebrate the “Foundation Day Of LDCE – स्थापत्य 2020.” They celebrated the glory of the institute along with the faculties, students and alumni with cultural performance. NSS unit of LDCE had coordinated the event.

- **Virtual Yoga Day celebration June 21, 2020**

Institute celebrated the “6th International Yoga Day” on 21st June 2020. The theme was "Do Yoga, Beat Corona". Faculties as well as students participated in this virtual yoga session from home along with their families. Snehal Bhatia & Meenu Shevkani remained present as Yog Gurus. More 2000 students & faculty members joined the event online on Google meet platform & on Facebook live. NSS LDCE had coordinated the event.



- **Survey Of Naaz Village
(June 27, 2020)**

Even during the coronavirus pandemic, NSS unit of L. D. College of Engineering did not stop the service towards society. Some of the NSS Volunteers went for a survey to the Naaz village which is adopted by the unit. Basically the motive behind the survey was how the villagers handle the situation of Corona during the lockdown period.

Volunteers went to the village and met the Sarpanch of the village and asked some questions related to the survey. During the lockdown the villagers were not allowed to go outside the village. They were only allowed to go to their farms. To handle the situation, more than 1500 masks and 700+ units of sanitizers were distributed in the entire Naaz village. This was available from Government Healthcare Centre, Jetalpur. Also, the whole village had been sanitized 4 times during the lockdown period of 3 months. Testing of villagers was done regularly and phase wise. Daily 50 tests were done at Government Healthcare Centre, Jetalpur. There was not a single case of corona till then which showed how the villagers were aware about the situation.

A team of police did regular patrolling into the village and warned the villagers to stay home. All the villagers got the ration at very negligible rates. This was possible under the scheme called 'PANDIT DEEN DAYAL YOJANA'. Under this scheme almost 300 people contributed along with the Sarpanch Shree.



Faculties' Achievement

1. **Prof. R. J. Jani** (AE) received an “**AWIM 2019 award**” for Ahmedabad City Olympic Mentorship from SAE India central unit Chennai.
2. Faculties came forward in these COVID - 19 situations to help support **food packet distribution** of 45+ (worth Rs. 22500) and a donation of worth Rs. 44500/-.(CE)
3. An online webinar on “**Integration of Total Station Data in GIS Environment**” delivered by **Prof. (Dr.) M. S. Gadhavi, Asst. Prof., CED, LDCE** on 5th May, 2020 was organized by the department under the coordination of **Dr. P. J, Gundaliya, Prof. N. J. Dalal, Prof. U. P. Nigam and Prof. J. S. Kamble(CE)**
4. An online webinar on “**Impact Evaluation of Road Safety Audit through Benefit-Cost Analysis**” delivered by **Dr. S. Velumurugun, Chief Scientist, CSIR, CRRI** on 6th May, 2020 was organized by the department under the coordination of **Dr. P. J, Gundaliya, Prof. A. M. Mirza and Prof. U. P. Nigam (CE)**
5. An online webinar on “**Fundamentals of GPS & its Applications**” delivered by **Prof. (Dr.) Parul R. Patel, Prof., CED, Nirma University** on 9th May, 2020 was organized by the department under the coordination of **Dr. P. J, Gundaliya, Prof. Z. J. Chovatiya, Prof. C. N. Bhavsar and Prof. J. S. Kamble(CE)**
6. A five-days “**Industry Oriented Webinar Series**” was organized from 13/5/20 to 17/5/20 by the Civil Engineering Department under ISTE, LDCE Ahmedabad Chapter under the coordination of **Dr. P. J, Gundaliya and Prof. U. P. Nigam.(CE)**



L. D. COLLEGE OF ENGINEERING, AHMEDABAD
ISTE CHAPTER, LDCE-AHMEDABAD
CIVIL ENGINEERING DEPARTMENT



5-Days Industry Oriented Webinar Series CIVIL-LDCE

Jointly Organized by ISTE Chapter, LDCE & Civil Engineering Department

Sr. No.	Date	Time	Title of Webinar	Name of Speaker	Designation of Speaker	Organization of Speaker	Chief Organizer	Coordinator	Registration Link
1.	13/5/2020	3:00 PM	Sustainable Transport and Safety	Dr. Mohan Advani	Scientist, Transportation Planning Division	CSIR-CRRI, New Delhi	Dr.P.J. Gundaliya	Prof. A. M. Mirza	https://forms.gle/vrQm8Zucv98M6608
2.	14/5/2020	4:00 PM	Urban water supply and sanitation in India : The way forward	Dr. Devang Shah	Assistant Professor, Civil Engineering Department	Pand University, Vadodra	Dr.P.J. Gundaliya	Prof. C.N. Bhavsar	https://forms.gle/Z1nG69B2Nqr0Z8n7
3.	15/5/2020	3:00 PM	Remote Sensing in Reservoir Sedimentation through case studies	Dr. Kaushtubh Tiwari	Senior Engineer, WAPCOS LTD.	WAPCOS LTD. (GANDHINAGAR)	Dr.V.M. Patel	Prof. U. P. Nigam	https://forms.gle/b4N1cm5b8M2e3b6A
4.	16/5/2020	11:00 AM	The Next Steps: Automation and Simulation	Mr. Srivansa Bhamidipati	Senior Advisor, Modelling & Simulation	Spatial Analyst, Netherlands	Dr.P.J. Gundaliya	Prof. T. H. Vyas	https://forms.gle/qs3Fmno6z7i2Qm8
5.	17/5/2020	11:00 AM	Treated Waste Water Management	Mr. Kartikey Tiwari	Field Expert & Senior Engineer	Egis India, Bhopal	Dr.V.M. Patel	Prof. U. P. Nigam	https://forms.gle/Tpqr779u3EAMCV9E

NOTE:- All webinars will be conducted via Cisco WebEx Meeting Platform. Participants are informed to Download the necessary App after registration.


Chief Patron

Dr. R.K.Gajjar, Principal, LDCE Ahmedabad

Convener of the Program

Dr. R.B. Khaviya, H.O.D (Civil), LDCE Ahmedabad

7. An online webinar on “**Application of GIS in Civil Engineering**” was delivered by **Prof. (Dr.) M. S. Gadhavi, Asst. Prof., CED, LDCE** on 12th May, 2020 under the banner of the Civil Engineering Department, SSEC, Bhavnagar.
8. An online webinar on “**Earthquake Geology and Related Hazard**” was delivered by **Prof. (Dr.) M. S. Gadhavi, Asst. Prof., CED, LDCE** on 16th May, 2020 under the banner of the Civil Engineering Department, **Dr. S. & S. S. Ghandhy GEC, Surat.**
9. A five-day Webinar Series was organized from 22/5/20 to 26/5/20 by the Civil Engineering Department under ISTE, LDCE Ahmedabad Chapter under the coordination of **Prof. S.S.Dixit, Prof. J.S.Kamble and Prof. U. P. Nigam.**
10. A three-day National Webinar Series on “**Integrated Urban Water Management & Modelling using software MIKE powered by DHI**” was organized from 26/5/20 to 28/5/20 by Water Resource Engineering -PG Section, Civil Engineering Department under ISTE, LDCE Ahmedabad Chapter under the coordination of **Dr. V.M.Patel, Prof. U. P. Nigam and Prof. J.S.Kamble (CE)**
11. **Electrical Engineering Department** has conducted webinar series of four sessions (8 hours) on 03-05-2020 and 10-05-2020 under the guidance of **Dr. M C Chudasama. Dr Urmil Parikh** (Alumni 1994-1998 Electrical Engg Dept), Principal Engineer - Power Systems, ABB Power Products and Systems Ltd delivered talks on '**Controlled Switching and Applications in Power Systems**'. 68 participants including faculty members and students have attended the sessions through Google meet platform. Detailed discussion regarding theoretical concepts and industrial applications of controlled switching with case studies was done by the speaker. All faculties of Electrical Engineering department attended the webinar. **Prof Z B Parekh** worked as a moderator in all sessions.
12. The event **KIAZEN – 2K20** was conducted online, by the Electrical Engineering Department with great efforts and support by all faculty members and students under leadership of Head of department, **Dr. M C Chudasama**. Three parallel sessions were conducted through Google zoom app. Each jury member took keen interest in discussing each and every project in detail. Number of students participated: 135 (EE)

 Five Days Webinar Series Organized by Civil Engineering Department L. D. College Of Engineering, Ahmedabad Under Indian Society of Technical Education (ISTE) Chapter, LDCE-Ahmedabad 									
Sr. No.	Date	Time	Title of Webinar	Name of Speaker	Designation of Speaker	Organization of Speaker	Chief Organizer	Host/ Coordinator's	Registration Link
1.	22/05/2020	5:00 PM	Tune Your Brain	Shri Bhavik S. Gaurwani	Founder & Certified Mind Trainer	Parichay Training Consultancy, Nadiad	Prof. R N Shukla		
2.	23/05/2020	4:00 PM	Master the art of dealing with research papers and proposals	Prof. (Dr.) Jaykumar Vora	Assistant Professor, Mechanical Engineering Department	Pandit Deendayal Petroleum University, Gandhinagar	Prof. (Dr.) P J Gundalaya	Prof. Sudhanshu S. Dixit	https://forms.gle/KHARgWZ7ZVTA5uJr3
3.	24/05/2020	2:00 PM	Grey Water Management in rural areas	Dr. Kacotrabbh Tiwari	Senior Engineer	WAPCOS Ltd Gandhinagar	Prof. (Dr.) V. M. Patel	Prof. Utkarsh P. Nigam Prof. Jitsha S. Kamble	
4.	25/05/2020	4:00 PM	Application of RS, GIS, and UAV for Water Resources Management : A Case of Identification of suitable site for Check Dam	Prof. (Dr.) Dhruvsh P. Patel	Assistant Professor, Civil Engineering Department	Pandit Deendayal Petroleum University, Gandhinagar	Prof. (Dr.) M S Gadhvi		
5.	26/05/2020	11:00 AM	Self-Reliant India and IPR	Shri Divyansh Shukla	Founder	INDUCE IP	Prof. N J Dalal		

NOTE: - All webinars will be conducted via Cisco WebEx Meeting Platform. There is single registration link & single e-certificate will be provided to those who will attend all the five days webinar.

Chief Patron Prof. (Dr.) R. K. Gajjar, Principal, LDCE Ahmedabad	Convener of the Program Prof. (Dr.) R. B. Khasiya, H.O.D (Civil), LDCE Ahmedabad
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13. The online **Kaizen 2020** for Instrumentation & Control Engineering Department was conducted with 5 panels of faculties reviewing all the teams of final year IDP/UDP projects on the 9th April, 2020 through Zoom meeting app. As per the Panel reviewers, total 4 Innovative Projects were selected out of 23 groups.
14. **Prof. (Dr.) M.V. Shah** (ECE) was invited as an external expert in the DPC (**Departmental Promotion Committee**) constituted by the Director, PRL for reviewing the promotion of Scientists/Engineer of PRL on 26th June 2020.
15. **Prof. (Dr.) M.V. Shah**(ECE) was invited as an external expert in the DPC (Departmental Promotion Committee) review for the promotion to the post of Scientists/Engineer 'SD' by SAC, ISRO, Ahmedabad on 29th June 2020.
16. **Prof. (Dr.) B.S. Sedani**(ECE) authored the book titled "**Wi-MAX Modeling: Techniques and Application**," published by Springer Nature, Switzerland in April 2020.
17. **Prof. (Dr.) B.S. Sedani**(ECE) had delivered an expert talk through webinar on "**5G Technology**", on 17th May 2020 i.e. World Telecommunication & Information Society Day Celebration organized by IETE, Ahmedabad.
18. **Prof. Ashwin Thakkar** was conferred PhD in **Textile Engineering**.
19. **Dr. Ashwin Thakkar** delivered a talk during a webinar organized by "**The Textile Association (India)**" on 27th June, 2020.
20. The **Mechanical Department** has successfully organized online **Kaizen 2020** – a final year project evaluation and demonstration to society and other students during 05th to 09th April 2020. Total 38 projects were displayed through various online platforms and judged by senior faculty members and experts. Students participated with great enthusiasm and passion. All the faculties of the department have encouraged them to develop a positive attitude in this difficult situation.
21. **Dr N M Bhatt** is appointed as expert committee member of training cell and expert committee member to evaluate STEM proposals by "**Directorate of Technical Education**", Gujarat State
22. **Dr N M Bhatt** is appointed as member-senior academic for "**Institutional Student Grievance Redressal Committee**" by GTU.
23. **Dr N M Bhatt** is appointed as a member of the institute level committee of GEC-Modasa, for their "**Design Innovation Centre of GTU**".
24. **Dr. S. S. Pathan** (MECH) has been appointed as Single Point of Contact (SPOC) of "**SWAYAM – NPTEL local chapter of the Institute**". More than 600 NPTEL MOOCs were registered through the local chapter and successfully completed by students and faculty members of the department.
25. **Dr. S. S. Pathan**, library officer of the LDCE - central library and his team worked diligently to procure printer books and added new titles by collecting the data and seeking the choice of more than 290 faculty members. Further, during the COVID-19 pandemic situation, our institute library could get permission from the head office to subscribe magazines and E-Journals.
26. Prof Hardik Shukla (MECH) delivered an online expert talk on "Air distribution and duct design" for ISHRAE Vadodara chapter on April 26, 2020.
27. **Prof Dhruv Panchal** (MECH) worked in the PR and social media committee of Study in Gujarat campaign of the Education Department, Government of Gujarat.
28. **Prof. D. U. Panchal** conducted a webinar on "**3D sketching**" in summer boot camp 2020 organized by SSIP cell, LDCE.
29. Under the guidance of **Dr N M Bhatt, Prof. Nimesh Gajjar** successfully completed his Ph.D. on '**Experimental Investigation on HFO-1234yf as a replacement of R-134a in Domestic Refrigerator**' from Kadi Sarva Vishwavidyalaya in May 2020.
30. **Prof Dhruv Panchal's** presentation (MECH) on "**Root Cause Analysis of Drop in Fuel Economy for CVT Driven Two-Wheeler Using Shainin® Component Search TM Approach**" has been awarded third prize in poster presentation session during Chem - Conflux20 held between Feb 14-16, 2020 at Motilal Nehru National Institute of Technology, Allahabad, Prayagraj.
31. **Prof. Darshit Shah**, Assistant Professor, Mechanical Engineering has completed Ph.D. from GTU on '**Study the effect of cutting parameters and tool nose radius to investigate machinability of Ti-6Al-4V (ELI)**' under the guidance of Dr. Sanket N Bhavsar, on 26/04/2020.

32. **Prof. Bakul Panchal** attended a webinar on Virtual Artificial Intelligence Summit-Solutions to COVID-19 on 09-05-2020 on an online platform.
33. **Prof. Hiteishi Diwnaji** delivered an expert talk on online platform on the topic "**Apps that steal data**" in which the discussion was about colluding and collaborating app.
34. **Prof. Bakul Panchal** attended a webinar on Intellectual Property of New India on 16-05-2020 on an online platform arranged by GTU.
35. **Prof. Bakul Panchal** attended a webinar on Getting Started with Augmented Reality/Virtual Reality on 9th May 2020 on an online platform on 09-05-2020 on an online platform.
36. **Prof. Bakul Panchal** participated in an online quiz named "**National Level Quiz on NBA**" arranged by P. V. Patil College of Engineering, Mumbai.
37. **Prof. Shital Solanki** attended a webinar on Intellectual Property of New India on 16-05-2020 on an online platform arranged by GTU.
38. **Prof. Pradip Patel** attended a webinar on Accelerating Computations using **MATLAB and Simulink** organized by Dr. Dhruv Panchal from Mathworks India on 26-05-2020
39. **Prof. Swati Patel** has successfully completed 7-week course on "**Programming for Everybody (Getting Started with Python)**" on Coursera on 7th June 2020.
40. **Prof. Nirjari Desai** attended a webinar on the future of IOT, 5G and Computing by Dr. Subhash Technical Campus, Junagadh on 14-06-2020.
41. **Prof. Nirjari Desai** attended a webinar on "**SKILLING INDIA WORKFORCE ON CYBER RANGE WITH LIVE CYBER ATTACK DEMONSTRATION**" by Dr. Subhash Technical Campus, Junagadh on 10-06-2020.
42. All faculties of **chemical department** have attained numbers of webinar organized during April- June.
43. **Prof. Hetal A. Joshiara** has attended online training program on "**Entrepreneurship and innovation**" from 9th June 2020 to 13th June 2020, organized by Entrepreneurship Development Cell, Parul University, Vadodara.
44. **Prof. Hetal A. Joshiara** has attended Literature Workshop "**Safar Sahitya Ka**" from 7th June to 12th June 2020 organized by Shantilal Shah Engineering College, Bhavnagar and submitted own poem on "**Corona**".
45. **Prof. Hetal A. Joshiara** has participated in "**Rangarang**" online competition and recited her own poem on 20th June 2020 on the foundation Day of L.D. College of Engineering.
46. **Prof. Hetal A. Joshiara** has participated and contributed as one of the core team members of panel discussion "**Design, Innovation and Engineering to Build a New India**" organized on 25th May 2020
47. **Prof. Amita Shah**, Assistant Professor of LD College of Engineering has participated in five day National Webinar Series on "**Parivartan: Changing Scenario in Science, Education and Psychology - A Combined Approach**" organized by Government Science College, Veraval from 27th May to 31st May 2020.
48. **Prof. Amita Shah**, Assistant Professor of L D College has participated in the Webinar on "Skilling India Workforce on Cyber Range with Live Cyber Attack Demonstration" on the date of 21st May 2020, jointly organized by IT Dept. LDCE and Cyberbit.
49. **Prof. Amita Shah** Has successfully completed the National Level Quiz on NBA on 2-6-2020, organized by the Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai-22.
50. **Prof. Amita Shah** has Participated in the National Webinar on "**Intellectual Property For New India**" on 16th May 2020, Saturday (13th Foundation Day of GTU) organized by GTU.

SPORTS



CHESS

SAE LDCE Club organized an Online Chess Championship event on 02/05/2020. 310 students from L.D. College of Engineering participated in this event. E-Certificates were provided to all participants and awards were declared for winners. The entire event was coordinated by Mr. Jeet Trivedi and Mr. Hardik Gohil. The Event was carried out on Lichess Platform.

CRICKET

Mayank Patel (ECE) of 3rd Semester got selected for zonals and represented GTU in interzonal cricket tournament held at Vadodara in March 2020.



PROFESSIONAL DEVELOPMENT

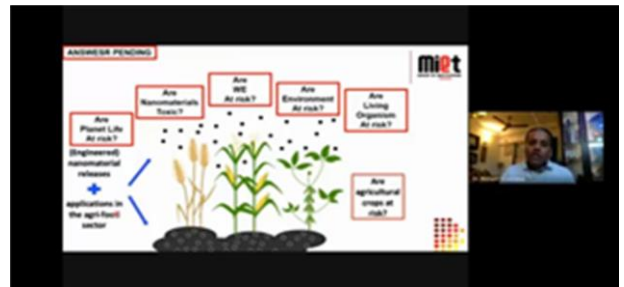
- **Dr. P. J. Gundaliya** has delivered two expert lectures on Pavement Design and Application of Genetic Algorithm in Civil Engineering at GEC, Surat in May 2020 month and one lecture delivered at Parul Institute ,Vadodara.(CE)
- **Prof. R.N.Shukla** has delivered a lecture on Introduction to Road Safety Audit Procedure at GEC Surat on 13th May, 2020.
- **Dr. M S Gadhavi** has delivered one expert lecture on Integration of Total Station Data in GIS Environment at LDCE during May month.
- **Prof. P.K.Lalwani** has delivered an expert lecture on Basics of epanet tools: application of software in water distribution at Engg. College, Jhalawar, Rajasthan on 21st May, 2020.
- **Prof. Utkarsh P. Nigam** has delivered expert lectures on “**Water supply system and sewerage system**”, “**Air pollution and preventive measure**”, “**Noise pollution and standards**” at Engineering college, Jhalawar, Rajasthan on 27 to 29 May, 2020 and one other expert lecture on Water distribution system and its application at World college of technology and management, Gurgaon.(CE)
- **Prof. M.M.Shaikh** (CE), has successfully completed 2 weeks STTP Online certification course on “**Induction Phase-II**” during 15-26 June,2020 conducted by NITTTR Bhopal.
- **Dr. P. J. Gundaliya** has successfully completed one week on “**Incorporating Universal Human Values in Education**” during 14-18 June, 2020, organized by Online FDP Organised for Margdarshaks and DTE. (An AICTE Initiative)
- **Prof. J. S. Kamble** has successfully completed one week on “**Online State Level Symposium**”, “**Recent Advances in Civil Engineering**” (RACE-2020) by GEC, Surat during 17-21 June, 2020.(CE)
- **Prof. K B Kela, Prof. H N Raval** of Electrical department participated in the 5 days online STTP on “**MATLAB**” based Teaching-Learning in Mathematics ,Science and Engineering organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai during 18 - 22 May ,2020 and successfully completed the STTP.
- **Prof. M I Siddiqui, Prof. F. A. Macwan Prof. M G Patel, Prof. L K Katariya, Prof. T. R. Patel**, Electrical members have completed a FDP course on “**Research Opportunities in Electrical Engineering**” in May- 2020.
- **Dr. U L Makwana, Dr. D D Trivedi, Prof. H N Raval, Prof. L K Katariya , Prof. M G Patel , Prof. Mihir Vasavada** have successfully completed a MOOC course on “**Electrical Vehicle-1**” in June 2020.(EE)
- **Prof. P.J. Brahmhatt** and **Prof. A.J. Kshatriya**(ECE), have successfully completed 12 weeks (equivalent to two weeks STTP) NPTEL Online certification course on “**Principles of Digital Communication**” during Jan- April 2020 conducted by IIT, Delhi.

- **Prof. A.B. Upadhyay** and **Prof. S.K. Rana**(ECE) have successfully completed 12 weeks (equivalent to two weeks STTP) NPTEL Online certification course on “**NBA Accreditation and Teaching-Learning in Engineering**” during Jan- April 2020 conducted by IISc, Bangalore.
- **Prof. S.K. Rana** (ECE) has successfully completed 12 weeks (equivalent to two weeks STTP) NPTEL Online certification course on “**Antennas**” during Jan- April 2020 conducted by IIT, Bombay.
- **Prof. S.K. Rana** (ECE) has successfully completed one week online FDP on “**3-D EM Simulation on CST STUDIO SUITE**” from 22nd-26th June 2020 organized by department of electronics and communication Engineering, KLEF, Guntur, in association with Jyoti Electronics Hyderabad and Computer Society of India.
- **Prof. A.B. Upadhyay** and **Prof. K.R. Sheth** (ECE) have successfully completed 12 weeks (equivalent to two weeks) NPTEL Online certification course on “**Control System**” during Jan- April 2020 conducted by IIT, Madras.
- **Prof. Bina Patel** has attended a two weeks online STTP on “ **Induction Phase - I**” during 08-19 June, 2020 by NITTTR Bhopal.(Env)
- **Prof. A.B. Upadhyay, Prof. S.K. Gonsai** (ECE), have participated in online STTP on “**Outcome Based Curriculum**” from 1st-5th June 2020 conducted by NITTTR, Chandigarh.
- **Prof. A.B. Upadhyay, Prof. (Dr.) P.P. Prajapati, Prof. S.K. Gonsai, Prof. K.R. Sheth, and Prof. H.B Tank** (ECE) had participated in online 2 weeks STTP on “**Cyber Security**” from 8th-19th June 2020 conducted by NITTTR, Chandigarh.
- **Prof. (Dr.) P.P. Prajapati** (ECE) has successfully completed 1 week online STTP on “**Academic Leadership Enhancement in Technical Institutions**” from 4th - 8th May 2020, conducted by NITTTR, Chandigarh.
- **Prof. (Dr.) P.P. Prajapati, Prof. S.K. Gonsai, Prof. K.R. Sheth** has successfully completed 1 week online STTP on “**Image and Embedded Processing**” from 11th - 15th May 2020, conducted by NITTTR, Chandigarh.
- **Prof. S K Dabhi** successfully attended a short term training program on “**Experience in Solar Energy: Challenges & Opportunities**” from 08/06/2020 to 13/06/2020.

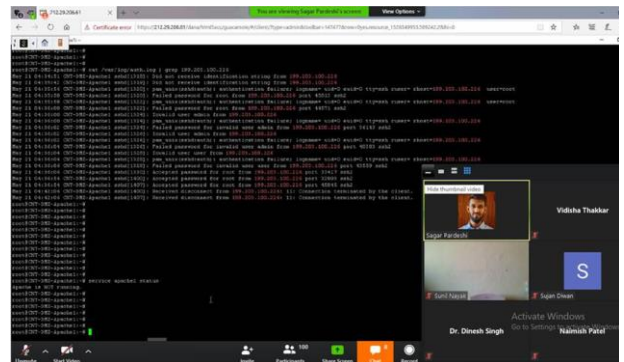
- A webinar on “**Litmus test for innovative mind set**” was organized by the Chemical Department for faculties and students on 5th May 2020, by **Nikhil Shah**. He is an alumni of L.D. College of Engineering. He did his graduation in Computer Engineering from LDCE in 1993, post-graduation from VJTI, Mumbai and many more programs from USA. He started the lecture by discussing 6 pillars of success and then explained how the future would be based on artificial intelligence and machine learning and explained these concepts with some real examples. He gave information about 5G and about the power of block chain and how it will be helpful to different disciplines.



- A webinar was organized on 15th June 2020, by the Chemical Department for Faculties and students on “**Nanotechnology: A step towards sustainability**”. The speaker of the webinar was **Dr. Nishant Srivastava**, Assistant Professor and Research Scientist, Meerut Institute of Engineering and Technology. He explained the benefits of nanotechnology in the environment.



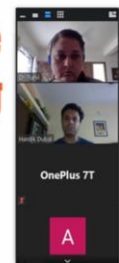
- A Webinar on “**SKILLING INDIA WORKFORCE ON CYBER RANGE WITH LIVE CYBER ATTACK DEMONSTRATION**” has been arranged using Online Platform on 21-05-2020 for more than 400 faculty members and more than 1500 students.



- Information and technology department has successfully organized a webinar on HTML 5 Game programming on 8 may 2020 under #LDCEAlumniSeries. **Mr. Hardik**, Alumni 2004-2008, explained about HTML5 games, games engine, canvas, creating a game loop in HTML and implementing a simple game using the game loop. 91 students and faculties have registered and participated. The session was interactive and **Mr. Hardik** also promised to offer internships to interested students.

HTML5 Game Programming

A Webinar by Hardik Dubal



PUBLICATIONS

- **Dr. P. J. Gundaliya, J. S. Kamble, Vikas Gajjar** have published a paper titled **“LITERATURE REVIEW ON VEHICLE EMISSION MODEL FOR MOVING VEHICLE”** in Compliance Engineering Journal UGC-CARE approved group II journal, Volume 11, Issue-5 ISSN No.: 0898-3577 on May 2020. (CE)
- **Dr. P. J. Gundaliya, J. S. Kamble, Vikas Gajjar** have published a paper titled **“DEVELOPMENT OF VEHICULAR EMISSION MODEL FOR 4-WHEELER IN HETEROGENEOUS TRAFFIC”** in Compliance Engineering Journal UGC-CARE approved group II journal, Volume 11, Issue- 6 ISSN No.: 0898-3577 on June 2020.
- **Dr. P. J. Gundaliya, Chetan Gothaliya, Prof. J. S. Kamble** have published a paper titled **“DEVELOPMENT OF PREDICTION MODEL FOR VEHICULAR EMISSION MODEL AT SELECTED INTERSECTION OF AHMEDABAD CITY”** in International Research Journal of Engineering and Technology (IRJET), Volume 7, Issue:5, e-ISSN No: 2395-0056 p-ISSN No: 2395-0072 on May 2020.
- **Pranjal Ranpura , Dr. Pradip Gundaliya** have published a paper titled **“DESIGN OF TRAFFIC ACTUATED SIGNALS BASED ON QUEUE LENGTH FOR HETEROGENEOUS TRAFFIC”** in Compliance Engineering Journal UGC-CARE approved group II journal, Volume 11, Issue- 6 ISSN No.: 0898-3577 in June 2020
- **Jitisha Kamble, Shivendrakumar Jha, Dr. P. J. Patel, Kalpesh Vaghela** have published a paper titled **“Traffic Noise Menace Investigation at Signalized Intersections In Ahmedabad”** International Journal of Advanced Science and Technology, Volume 29, No. 9s, (2020), pg.288-294 ISSN: 2005-4238 E-ISSN: 2207-6360 in April 2020.
- **Prof.R.N.Shukla, Chauhan Mohit, Vala Jaysinh, Suthar Rajesh** have published a paper titled **“Trip Attraction Rate Analysis – A Review for Commercial Land use”** Compliance Engineering Journal, A UGC-CARE approved group-II journal, ISSN NO:0898-3577,Volme11,Issue 4, April-2020, Page no:220-225 in April-2020.
- **Dhruv Trivedi, R.N.Shukla, Dr.Pritikana Das** have published a paper titled **“A Literature Review on Parking Demand Modelling for Residential Building”** in Compliance Engineering Journal, A UGC-CARE approved group-II journal, ISSN NO:0898-3577 Volme:11,Issue:5, May-2020,Page no: 206-213, in May 2020.
- **Prof. R.N.Shukla & Himanshi Gadani** have published a paper titled **“Mode Choice Analysis of Trips of Students and Staff in Education Hub Using Multinomial Logit Model”** in Journal of Xidian University (scopus) A UGC-CARE approved group 2 journal ISSN NO: 1001-2400, Impact Factor: 5.4 VOLUME 14, ISSUE 6, 2020. <https://doi.org/10.37896/jxu14.6/075> in June 2020.
- **Prof. Rena N. Shukla, Hetal R. Khasiya, Amandeep Singh B. Bhalla,** have published a paper titled **“International Journal of Emerging Technologies and Innovative Research”** (www.jetir.org), ISSN:2349-5162, Vol.7, Issue 6, page no.532-536, June-2020, UGC approved journal no 63975 in June 2020.
- **Pratik Nanavati, Utkarsh Nigam, V M Patel** have published a paper titled **“Simulation of Water Level using Fuzzy Logic for Sabarmati River”** in International Research Journal of Engineering and Technology (IRJET) Volume 7, Issue 6, June 2020, ISSN: 2395-0056 in June 2020.
- **Jayesh Sharma, Khasiya R.B. Utkarsh Nigam** have published a paper titled **“Development of a system for estimating the real time hydraulic characteristics of canal using suitable modern approach”** in International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162 UGC approved journal no 63975 in June 2020.
- **Dr. R.B.Khasiya, Pooja Patel, Utkarsh Nigam, Prof. N N Borad,** have published a paper titled **“RAINFALL ANALYSIS FOR STORM MANAGEMENT OF NAVRANGPURA-AHMEDABAD”** in International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162 UGC approved.

- **Prof. Utkarsh Nigam, Pooja Patel** have published a paper titled “**Design of storm water drainage system in a metropolitan area**” in International Journal of Engineering Research & Technology (IJERT) (ISSN: 2278-0181) www.ijert.org in June 2020.
- **Prof. Mazar Shaikh (AE)** has published a paper on “**Investigation of Diesel Particulate Filter Behaviour Using Alcohol as a Fuel for Diesel Engine**” in IJSRD - International Journal for Scientific Research & Development| Vol. 8, Issue 4, 2020 | ISSN (online): 2321-0613
- **Prof. Mazar Shaikh** has published a paper on “**Parametric Optimization of Brake Power and Specific Fuel Consumption**” on a Single Cylinder VCR Engine By Taguchi Method Using Jatropa Biodiesel Derived From Jatropa Curcas Oil Conducting Experiments As Per IS 10000 Approach: in Journal of Science and Technology ISSN: 2456-5660 Volume 5, Issue 3, May-June 2020
- **Prof. Mazar Shaikh** has published a paper on “**Experimental investigation on CI engine using alcohol fumigation method for emission reduction**” in IJSRD,VOLUME 8, ISSUE 4, June 2020
- **Prof. Sulay Patel (AE)** has published a paper on “**Enhancing Safety of two wheelers using enclosed body with actuating mechanism**” in JES Journal, Volume 11, Issue 6 June 2020.
- **Ankit K. Shah** has published a chapter on “**An IEC 61131-3-Based PLC Timers Module Implemented on FPGA Platform**” in: Bindhu V., Chen J., Tavares J. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in **Electrical Engineering**, vol 637. Springer, Singapore. Print ISBN— 978-981-15-2611-4 & Online ISBN — 978-981-15-2612-1.(IC)
- **Dr. Pankaj Prajapati(ECE)** and **Dr. M.V. Shah(ECE)** have published a paper titled “**Automatic Sizing of CMOS-Based Analogue Circuits Using Cuckoo Search Algorithm**” in International Journal of Intelligent Systems Technologies and Applications, Vol. 19 No. 2 on 29th April 2020
- **Mr. Nachiket Bhoi(ME CSE)** published a paper titled “**Designing and Implementation of SIW Antenna for 5G**” in SCOPUS Indexed journal **IJSTR** under the guidance of Prof. N. A. Kotak(ECE), in March 2020.
- **Mr. Sagar dixit (4th ME CSE)** published a paper titled “**L and S Band Feed System Design For High Gain GNSS Antenna System For Earth Stations**” in SCOPUS Indexed journal- **IJSTR** under the guidance of **Dr. B.S. Sedani** and **Dr. N.A. Kotak**, Volume 9 - Issue 3, March 2020.
- **Miss. Bhavsar Vishwa (4th ME CSE)** published a paper titled “**MMIC based Wideband Amplifier for Receiver Back-End Circuitry with Distinct Semiconductor Technologies – A Survey**” in **SCOPUS** Indexed journal- International Journal for Research in Applied Science and Engineering Technology under the guidance of **Dr. A.J. Kshatriya(ECE)**, Volume 9 - Issue 3, March 2020.
- **Mr. Krunal Tailor (ME CSE)** published a paper titled “**Enhancement Bandwidth Using H Shaped Dielectric Resonator Antenna for 3.5 GHz 5G Application**” in SCOPUS Indexed journal- **IJCRT** under the guidance of **Prof. K.R. Sheth(ECE)**, on 19, March 2020
- **Miss. Kavisha Parikh (4th ME CSE)** published a paper titled “**Development of AHB-Lite System Verilog Based VIP with Assertion**” in SCOPUS Indexed journal- **IJRASET** under the guidance of **Prof. K.V. Patel(ECE)**, Volume 8 issue IV April 2020
- **Miss. Parita Rathod (4th ME CSE)** published a paper titled “**Low Pin Count and Test Time Reduction using Scan Compression**” in SCOPUS Indexed journal- **IJRASET** under the guidance of **Dr. P.P. Prajapati(ECE)**, Volume 8 issue IV April 2020.
- **Prof. Y. D. Vora (MECH), Sumit Mori, and Capt. Umang Jani** had published a paper titled “**Improving the design of a wing of an ultra-light aircraft**” and its analysis with & without stringers using CAD/CAE technologies in journal of Emerging Technologies and Innovative Research – ISSN-2349-5162 UGC approved (Journal No. 63975) & 5.87 Impact Factor in Volume 7, Issue 6, June 2020.

- **Dr. K. G. Dave (MECH) and Dishank Upadhayay** have published a technical paper on **“Experimental setup for hot turning using K type thermocouple interface with Arduino”** in International Journal for Scientific Research and Development, ISSN 23210613 Vol 8 Issue 4, June 2020.
- **Dr. Mrunalkumar D. Chaudhari and Dr. Janak B. Valaki** has written a technical book titled **“Engineering Metallurgy”** published by Tech Knowledge Publications, ISBN: 9789389684810 in January 2020.
- A technical paper on **“Effect of powder bed fusion process parameter on hardness for inconel 718”** by **Prof. Hiren Gajera, Dr. K. G. Dave and Hardik Nadiadi** has been selected for publication in Materials Today proceedings.
- **Dhaval Gandhi** an ME scholar along with **Prof. Bakul Panchal** presented a paper on the subject **“A novel approach for server consolidation to balance energy consumption and SLA violations”** in International Journal of Advanced Science and Technology, SCOPUS INDEXED JOURNAL.
- **Prof. Darshit Shah (MECH)** published paper on **“Effect of Tool Nose Radius and Machining Parameters on Cutting Force, Cutting Temperature and Surface Roughness – An Experimental Study of Ti-6Al-4V (ELI)”** in Materials Today proceedings, Elsevier, Volume 22P4 (2020) pp. 1977-1986, May 2020.
- **Prof. Gaurav N Sutaria (MECH) and Madhavi Aacharya** have published a paper on **‘The effect of algae oil blend with diesel to investigate performance and emission analysis with various variable parameters – A review’** in International Journal of Engineering Science and Futuristic Technology, Volume 6 - Issue 4, April 2020.
- **Vrunda Thakur** along with **Prof. Ankit Patel** published a paper on the subject **“An Improved Dictionary Based Genre Classification Based on Title and Abstract of E-book Using Machine Learning Algorithms”** in International Conference on Computing Communications and Cyber Security (IC4S)[LNNS SPRINGER].
- **Prof. Shital Solanki** along with Mr. Ramesh Prajapati presented a paper on the subject **“Automated Classification using SVM and Back propagation learning technique”** in International Journal of Innovative Technology and Exploring Engineering (IJITEE).